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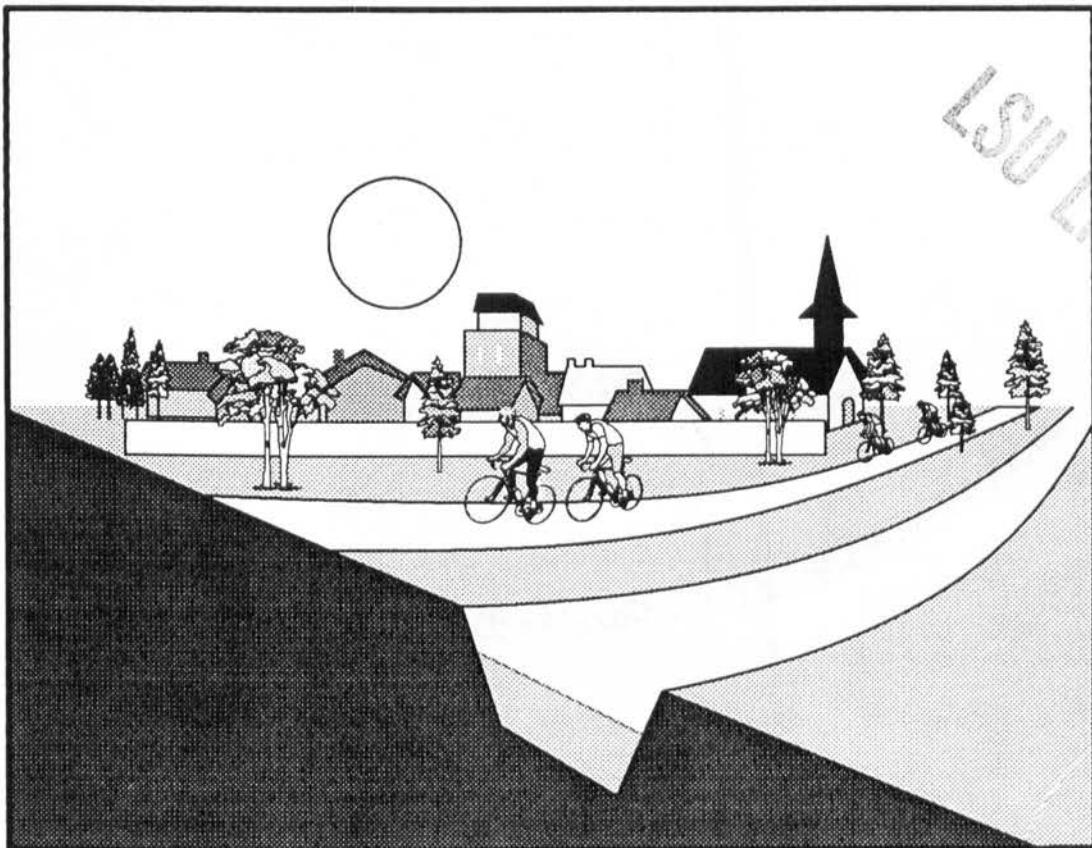
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New Orleans District



Amite River and Tributaries, Louisiana East Baton Rouge Parish Watershed Flood Control Projects



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Feasibility Study

M-CACES Estimate
February 1995

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If you have any questions or require additional information,
please contact Mr. Frank Viciomina, Study Manager, U.S. Army
Corps of Engineers, New Orleans District, P.O. Box 60267
New Orleans, LA 70160, telephone number (504) 862-1597.

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PROJECT EBR001: East Baton Rouge Psh Feas. - NED
East Baton Rouge Parish Feasibility Study

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TITLE PAGE

East Baton Rouge Psh Feas. - NED

NED Plan

9/27/94

Estimated By: Cost Engineering Branch, NOD

Prepared By: Cost Engineering Branch
New Orleans District

Date: 09/27/94

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SUMMARY PAGE 1

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A Bayou Fountain							
A 01 Lands and Damages		1,019,000	256,000	0	0	1,275,000	
A 02 Relocations		3,000	1,000	0	0	4,000	
A 06 Fish & Wildlife Facilities		11,110	2,890	0	0	14,000	
A 09 Channels and Canals		1,805,665	353,335	0	0	2,159,000	
A 29 Project Cooperation Agreements		4,100	900	0	0	5,000	
A 30 Engineering and Design		851,000	87,000	0	0	938,000	
A 31 Construction Management		304,000	61,000	0	0	365,000	
Bayou Fountain		3,997,875	762,125	0	0	4,760,000	
B Jones Creek							
B 01 Lands and Damages		393,020	99,980	0	0	493,000	
B 06 Fish & Wildlife Facilities		51,704	13,296	0	0	65,000	
B 09 Channels and Canals		35,453,100	9,268,900	0	0	44,722,000	
B 14 Recreation Facilities		908,797	227,203	0	0	1,136,000	
B 29 Project Cooperation Agreements		1,700	300	0	0	2,000	
B 30 Engineering and Design		2,504,000	488,000	0	0	2,992,000	
B 31 Construction Management		2,649,000	531,000	0	0	3,180,000	
Jones Creek		41,961,321	10,628,679	0	0	52,590,000	
C Beaver Bayou							
C 01 Lands and Damages		1,512,590	378,410	0	0	1,891,000	
C 02 Relocations		1,682,240	422,760	0	0	2,105,000	
C 06 Fish & Wildlife Facilities		57,259	14,741	0	0	72,000	
C 09 Channels and Canals		11,963,320	2,365,680	0	0	14,329,000	
C 29 Project Cooperation Agreements		4,100	900	0	0	5,000	
C 30 Engineering and Design		1,250,000	238,000	0	0	1,488,000	
C 31 Construction Management		583,000	117,000	0	0	700,000	
Beaver Bayou		17,052,509	3,537,491	0	0	20,590,000	
D Blackwater Bayou							
D 01 Lands & Damages		1,476,000	370,000	0	0	1,846,000	
D 02 Relocations		1,675,680	419,320	0	0	2,095,000	
D 06 Fish & Wildlife Facilities		49,856	12,144	0	0	62,000	
D 09 Channels and Canals		12,812,975	2,552,025	0	0	15,365,000	
D 29 Project Cooperation Agreements		4,100	900	0	0	5,000	
D 30 Engineering and Design		1,226,000	241,000	0	0	1,467,000	
D 31 Construction Management		708,000	142,000	0	0	850,000	
Blackwater Bayou		17,952,611	3,737,389	0	0	21,690,000	

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SUMMARY PAGE

	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E Ward Creek							
E 01 Lands and Damages		122,540	32,460	0	0	155,000	
E 06 Fish & Wildlife Facilities		14,817	4,183	0	0	19,000	
E 09 Channels and Canals		5,759,875	1,421,125	0	0	7,181,000	
E 29 Project Cooperation Agreements		2,400	600	0	0	3,000	
E 30 Engineering and Design		1,303,000	248,000	0	0	1,551,000	
E 31 Construction Management		467,000	94,000	0	0	561,000	
<hr/>							
Ward Creek		7,669,632	1,800,368	0	0	9,470,000	
<hr/>							
East Baton Rouge Psh Feas. - NED	1.00 EA	88,633,948	20,466,052	0	0	109,100,000	109100000

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A Bayou Fountain							
A 01 Lands and Damages							
A 0100 Lands and Damages							
A 010000 Lands and Damages							
A 01000000 Lands and Damages							
Lands and Damages	1,019,000	256,000	0	0	1,275,000		
Lands and Damages	1,019,000	256,000	0	0	1,275,000		
Lands and Damages	1,019,000	256,000	0	0	1,275,000		
Lands and Damages	1,019,000	256,000	0	0	1,275,000		
A 02 Relocations							
A 0200 Relocations							
A 020000 Relocations							
A 02000000 Relocations							
Relocations	3,000	1,000	0	0	4,000		
Relocations	3,000	1,000	0	0	4,000		
Relocations	3,000	1,000	0	0	4,000		
Relocations	3,000	1,000	0	0	4,000		
A 06 Fish & Wildlife Facilities							
A 0603 Wildlife Facilities & Sanctuary							
A 060371 Fences							
A 06037102 Setwork							
A 06037102 01 Fencing - barbed wire	1378.00 LF	7,510	1,954	0	0	9,464	6.87
Setwork		7,510	1,954	0	0	9,464	

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Fences		7,510	1,954	0	0	9,464	
A 060373 Habitat and Feeding Facilities							
A 06037302 Sitework							
A 06037302 01 Planting Trees							
	24.00 AC	3,600	936	0	0	4,536	189.00
Sitework		3,600	936	0	0	4,536	
Habitat and Feeding Facil		3,600	936	0	0	4,536	
Wildlife Facilities & San		11,110	2,890	0	0	14,000	
Fish & Wildlife Facilitie		11,110	2,890	0	0	14,000	
A 09 Channels and Canals							
A 0901 Channels							
A 090101 Mob & Demob							
A 09010101 Mob & Demob							
A 09010101 01 Mob & Demob							
Mob & Demob		100,000	19,570	0	0	119,570	
Mob & Demob		100,000	19,570	0	0	119,570	
Mob & Demob		100,000	19,570	0	0	119,570	
A 090115 Mechanical Dredging							
A 09011502 Sitework							
A 09011502 01 Clearing and Snagging							
	8.00 MI	152,000	29,747	0	0	181,747	22718.38
A 09011502 02 Clearing for Channel Dred							
	47.00 AC	277,300	54,268	0	0	331,568	7054.64
A 09011502 03 Excavation							
	283000.00 CY	1,103,700	215,941	0	0	1,319,641	4.66
Sitework		1,533,000	299,956	0	0	1,832,956	
Mechanical Dredging		1,533,000	299,956	0	0	1,832,956	
A 090130 Bank Stabilization							
A 09013002 Sitework							

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		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
A 09013002 01	Filter Drain Fabric	6460.00 SY	48,450	9,482	0	0	57,932	8.97
A 09013002 02	sand (8" thick)	160.00 CY	1,200	.235	0	0	1,435	8.97
A 09013002 03	riprap 16" - dry placemen	890.00 TON	20,470	4,006	0	0	24,476	27.50
	Sitework		70,120	13,723	0	0	83,843	
A 09013003	Concrete							
A 09013003 01	1 FT U-frame Base Slab	67.00 CY	12,060	2,360	0	0	14,420	215.22
A 09013003 02	1 FT U-frame wall	100.00 CY	30,000	5,871	0	0	35,871	358.71
A 09013003 03	Channel Wall Pavement (4"	55.00 CY	7,150	1,399	0	0	8,549	155.44
A 09013003 04	Channel Wall Pavement (6"	43.00 CY	6,450	1,262	0	0	7,712	179.35
A 09013003 05	Channel Wall Pavement (8"	62.00 CY	9,300	1,820	0	0	11,120	179.35
	Concrete		64,960	12,712	0	0	77,672	
	Bank Stabilization		135,080	26,435	0	0	161,515	
(	090199 Associated General Items							
A 09019905	Metals							
A 09019905 01	Fence (chain link)	300.00 LF	2,475	484	0	0	2,959	9.86
	Metals		2,475	484	0	0	2,959	
A 09019906	Aesthetic Plantings							
A 09019906 01	Aesthetic Tree Planting	1050.00 EA	15,750	3,250	0	0	19,000	18.10
A 09019906 02	Aesthetic Shrub Planting	1760.00 EA	19,360	3,640	0	0	23,000	13.07
	Aesthetic Plantings		35,110	6,890	0	0	42,000	
	Associated General Items		37,585	7,374	0	0	44,959	
	Channels		1,805,665	353,335	0	0	2,159,000	
	Channels and Canals		1,805,665	353,335	0	0	2,159,000	
A 29 Project Cooperation Agreements								
A 2900 Project Cooperation Agreements								
(290000 Project Cooperation Agreements								
A 29000000 Project Cooperation Agreements								

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SUMMARY PAGE

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Project Cooperation Agree	4,100	900	0	0	0	5,000	
Project Cooperation Agree	4,100	900	0	0	0	5,000	
Project Cooperation Agree	4,100	900	0	0	0	5,000	
Project Cooperation Agree	4,100	900	0	0	0	5,000	
A 30 Engineering and Design							
A 3000 Engineering and Design							
A 300000 Engineering and Design							
A 30000000 Engineering and Design							
Engineering and Design	851,000	87,000	0	0	0	938,000	
Engineering and Design	851,000	87,000	0	0	0	938,000	
Engineering and Design	851,000	87,000	0	0	0	938,000	
Engineering and Design	851,000	87,000	0	0	0	938,000	
A 31 Construction Management							
A 3100 Construction Management							
A 310000 Construction Management							
A 31000000 Construction Management							
Construction Management	304,000	61,000	0	0	0	365,000	
Construction Management	304,000	61,000	0	0	0	365,000	
Construction Management	304,000	61,000	0	0	0	365,000	
Construction Management	304,000	61,000	0	0	0	365,000	
Bayou Fountain	3,997,875	762,125	0	0	0	4,760,000	
B Jones Creek							
B 01 Lands and Damages							

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
B 0100 Lands and Damages							
B 010000 Lands and Damages							
B 01000000 Lands and Damages							
Lands and Damages							
	393,020	99,980	0	0	0	493,000	
Lands and Damages							
	393,020	99,980	0	0	0	493,000	
Lands and Damages							
	393,020	99,980	0	0	0	493,000	
Lands and Damages							
	393,020	99,980	0	0	0	493,000	
B 06 Fish & Wildlife Facilities							
B 0603 Wildlife Facilities & Sanctuary							
B 060371 Fences							
B 06037102 Sitenwork							
B 06037102 01 Fencing - barbed wire	6432.00 LF	35,054	9,016	0	0	44,070	6.85
Sitenwork							
	35,054	9,016	0	0	0	44,070	
Fences							
	35,054	9,016	0	0	0	44,070	
B 060373 Habitat and Feeding Facilities							
B 06037302 Sitenwork							
B 06037302 01 Planting Trees	111.00 AC	16,650	4,280	0	0	20,930	188.56
Sitenwork							
	16,650	4,280	0	0	0	20,930	
Habitat and Feeding Facil							
	16,650	4,280	0	0	0	20,930	
Wildlife Facilities & San							
	51,704	13,296	0	0	0	65,000	
Fish & Wildlife Facilitie							
	51,704	13,296	0	0	0	65,000	
09 Channels and Canals							
B 0901 Channels							
B 090101 Mob & Demob							

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
<hr/>							
B 09010101 Mob & Demob							
B 09010101 01 Mob & Demob		470,000	117,500	0	0	587,500	
Mob & Demob		470,000	117,500	0	0	587,500	
Mob & Demob		470,000	117,500	0	0	587,500	
B 090115 Mechanical Dredging							
B 09011502 Site Work							
B 09011502 01 Clearing for Channel Dred	272.00 AC	843,200	210,800	0	0	1,054,000	3875.00
B 09011502 02 Degrading, hauling, shapi	162000.00 CY	1,620,000	810,000	0	0	2,430,000	15.00
B 09011502 03 Clearing and Snagging	3.00 MI	57,000	14,250	0	0	71,250	23750.00
Site Work		2,520,200	1,035,050	0	0	3,555,250	
Mechanical Dredging		2,520,200	1,035,050	0	0	3,555,250	
B 090130 Bank Stabilization							
B 09013002 Site Work							
B 09013002 01 sand (8" thick)	84000.00 CY	974,400	243,600	0	0	1,218,000	14.50
B 09013002 02 Filter Drain Fabric	418700.00 SY	3,140,250	785,062	0	0	3,925,312	9.37
B 09013002 03 Fuseplug Dams		108,000	27,000	0	0	135,000	
Site Work		4,222,650	1,055,662	0	0	5,278,312	
B 09013003 Concrete							
B 09013003 01 Cutoff Wall	6150.00 CY	922,500	230,625	0	0	1,153,125	187.50
B 09013003 02 Channel Wall Pavement (4"	82300.00 CY	10,699,000	2,670,000	0	0	13,369,000	162.44
B 09013003 03 Channel Wall Pavement (6"	61300.00 CY	9,195,000	2,300,000	0	0	11,495,000	187.52
B 09013003 04 Channel Wall Pavement (8"	11000.00 CY	1,650,000	412,500	0	0	2,062,500	187.50
B 09013003 05 drain ditch	33100.00 CY	4,303,000	1,080,000	0	0	5,383,000	162.63
Concrete		26,769,500	6,693,125	0	0	33,462,625	
Bank Stabilization		30,992,150	7,748,787	0	0	38,740,937	
B 090199 Associated General Items							
B 09019905 Metals							

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		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
B 09019905 01	Fence (chain link)	171000.00 LF	1,410,750	352,563	0	0	1,763,313	10.31
	Metals		1,410,750	352,563	0	0	1,763,313	
B 09019906 Aesthetic Planting								
B 09019906 01	Aesthetic Tree Planting	1800.00 EA	27,000	6,500	0	0	33,500	18.61
B 09019906 02	Aesthetic Shrub Planting	3000.00 EA	33,000	8,500	0	0	41,500	13.83
	Aesthetic Planting		60,000	15,000	0	0	75,000	
	Associated General Items		1,470,750	367,563	0	0	1,838,313	
	Channels		35,453,100	9,268,900	0	0	44,722,000	
	Channels and Canals		35,453,100	9,268,900	0	0	44,722,000	
B 14 Recreation Facilities								
B 1400								
B 140022 Parking Lots and Service Roads								
B 14002202 Site Work								
B 14002202 02	Bridge - 10' x 50'		23,500	5,500	0	0	29,000	
B 14002202 03	Bridge - 10' x 150'		106,000	26,500	0	0	132,500	
B 14002202 04	Signs & Markers	20.00 EA	3,200	800	0	0	4,000	200.00
B 14002202 05	Trees	4431.00 EA	66,465	16,600	0	0	83,065	18.75
B 14002202 06	Fence (6' Wooden)	55440.00 LF	709,632	177,803	0	0	887,435	16.01
	Site Work		908,797	227,203	0	0	1,136,000	
	Parking Lots and Service		908,797	227,203	0	0	1,136,000	
			908,797	227,203	0	0	1,136,000	
	Recreation Facilities		908,797	227,203	0	0	1,136,000	
B 29 Project Cooperation Agreements								
B 2900 Project Cooperation Agreements								
290000 Project Cooperation Agreements								
B 29000000 Project Cooperation Agreements								

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Project Cooperation Agree	1,700	300	0	0	0	2,000	
Project Cooperation Agree	1,700	300	0	0	0	2,000	
Project Cooperation Agree	1,700	300	0	0	0	2,000	
Project Cooperation Agree	1,700	300	0	0	0	2,000	
B 30 Engineering and Design							
B 3000 Engineering and Design							
B 300000 Engineering and Design							
B 30000000 Engineering and Design							
Engineering and Design	2,504,000	488,000	0	0	0	2,992,000	
Engineering and Design	2,504,000	488,000	0	0	0	2,992,000	
Engineering and Design	2,504,000	488,000	0	0	0	2,992,000	
Engineering and Design	2,504,000	488,000	0	0	0	2,992,000	
B 31 Construction Management							
B 3100 Construction Management							
B 310000 Construction Management							
B 31000000 Construction Management							
Construction Management	2,649,000	531,000	0	0	0	3,180,000	
Construction Management	2,649,000	531,000	0	0	0	3,180,000	
Construction Management	2,649,000	531,000	0	0	0	3,180,000	
Construction Management	2,649,000	531,000	0	0	0	3,180,000	
Jones Creek	41,961,321	10,628,679	0	0	0	52,590,000	
C Beaver Bayou							
C 01 Lands and Damages							

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
C 0100 Lands and Damages							
C 010000 Lands and Damages							
C 01000000 Lands and Damages							
Lands and Damages	1,512,590	378,410	0	0	0	1,891,000	
Lands and Damages	1,512,590	378,410	0	0	0	1,891,000	
Lands and Damages	1,512,590	378,410	0	0	0	1,891,000	
Lands and Damages	1,512,590	378,410	0	0	0	1,891,000	
C 02 Relocations							
C 0200 Relocations							
C 020000 Relocations							
C 02000000 Relocations							
Relocations	1,682,240	422,760	0	0	0	2,105,000	
Relocations	1,682,240	422,760	0	0	0	2,105,000	
Relocations	1,682,240	422,760	0	0	0	2,105,000	
Relocations	1,682,240	422,760	0	0	0	2,105,000	
C 06 Fish & Wildlife Facilities							
C 0603 Wildlife Facilities & Sanctuary							
C 060371 Fences							
C 06037102 Setwork							
C 06037102 01 Fencing - barbed wire	7121.00 LF	38,809	9,999	0	0	48,808	6.85
Setwork		38,809	9,999	0	..	0	48,808
Fences		38,809	9,999	0	0	48,808	
C 060373 Habitat and Feeding Facilities							

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		QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
C 06037302 Sitework								
C 06037302 01 Planting Trees		123.00 AC	18,450	4,742	0	0	23,192	188.55
	Sitework		18,450	4,742	0	0	23,192	
	Habitat and Feeding Facil		18,450	4,742	0	0	23,192	
	Wildlife Facilities & San		57,259	14,741	0	0	72,000	
	Fish & Wildlife Facilitie		57,259	14,741	0	0	72,000	
C 09 Channels and Canals								
C 0901 Channels								
C 090101 Mob & Demob								
C 09010101 Mob & Demob								
C 09010101 01 Mob & Demob			220,000	43,444	0	0	263,444	
	Mob & Demob		220,000	43,444	0	0	263,444	
	Mob & Demob		220,000	43,444	0	0	263,444	
C 090115 Mechanical Dredging								
C 09011502 Sitework								
C 09011502 01 Clearing for Channel Dred	220.00 AC	1,298,000	256,321	0	0	1,554,321	7065.09	
C 09011502 02 Excavation	695000.00 CY	3,892,000	768,567	0	0	4,660,567		6.71
	Sitework	5,189,999	1,024,888	0	0	6,214,887		
	Mechanical Dredging	5,189,999	1,024,888	0	0	6,214,887		
C 090130 Bank Stabilization								
C 09013002 Site Work								
C 09013002 01 Geotextile Mat Turf Reinforcement	545100.00 SY	3,270,600	645,927	0	0	3,916,527		7.18
C 09013002 02 R-90 Stone	130200.00 TN	2,408,700	475,655	0	0	2,884,355		22.15
C 09013002 03 Hydromulch	322400.00 SY	80,600	15,916	0	0	96,516		0
C 09013002 04 Excavation for stone	115700.00 CY	647,920	127,947	0	0	775,867		6.71
C 09013002 05 Fuseplug Dams		78,000	15,403	0	0	93,403		
	Site Work	6,485,821	1,280,848	0	0	7,766,669		

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
C 09013003 Concrete							
Bank Stabilization		6,485,821	1,280,848	0	0	7,766,669	
C 090199 Associated General Items							
C 09019906 Aesthetic Plantings							
C 09019906 01 Aesthetic Tree Planting	4500.00 EA	67,500	16,500	0	0	84,000	18.67
Aesthetic Plantings		67,500	16,500	0	0	84,000	
Associated General Items		67,500	16,500	0	0	84,000	
Channels		11,963,320	2,365,680	0	0	14,329,000	
Channels and Canals		11,963,320	2,365,680	0	0	14,329,000	
C 29 Project Cooperation Agreements							
C 2900 Project Cooperation Agreements							
C 290000 Project Cooperation Agreements							
C 29000000 Project Cooperation Agreements							
Project Cooperation Agree		4,100	900	0	0	5,000	
Project Cooperation Agree		4,100	900	0	0	5,000	
Project Cooperation Agree		4,100	900	0	0	5,000	
Project Cooperation Agree		4,100	900	0	0	5,000	
C 30 Engineering and Design							
C 3000 Engineering and Design							
C 300000 Engineering and Design							
C 30000000 Engineering and Design							
Engineering and Design		1,250,000	238,000	0	0	1,488,000	
Engineering and Design		1,250,000	238,000	0	0	1,488,000	

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
Engineering and Design		1,250,000	238,000	0	0	1,488,000	
Engineering and Design		1,250,000	238,000	0	0	1,488,000	
C 31 Construction Management							
C 3100 Construction Management							
C 310000 Construction Management							
C 31000000 Construction Management							
Construction Management		583,000	117,000	0	0	700,000	
Construction Management		583,000	117,000	0	0	700,000	
Construction Management		583,000	117,000	0	0	700,000	
Construction Management		583,000	117,000	0	0	700,000	
Beaver Bayou		17,052,509	3,537,491	0	0	20,590,000	
D Blackwater Bayou							
D 01 Lands & Damages							
D 0100 Lands & Damages							
D 010000 Lands & Damages							
D 01000000 Lands & Damages							
Lands & Damages		1,476,000	370,000	0	0	1,846,000	
Lands & Damages		1,476,000	370,000	0	0	1,846,000	
Lands & Damages		1,476,000	370,000	0	0	1,846,000	
Lands & Damages		1,476,000	370,000	0	0	1,846,000	

D 02 Relocations

D 0200 Relocations

D 020000 Relocations

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
D 02000000 Relocations							
Relocations		1,675,680	419,320	0	0	2,095,000	
Relocations		1,675,680	419,320	0	0	2,095,000	
Relocations		1,675,680	419,320	0	0	2,095,000	
Relocations		1,675,680	419,320	0	0	2,095,000	
D 06 Fish & Wildlife Facilities							
D 0603 Wildlife Facilities & Sanctuary							
D 060371 Fences							
D 06037102 Sitework							
- D 06037102 01 Fencing - barbed wire	6203.00 LF	33,806	8,544	0	0	42,350	6.63
Sitework		33,806	8,544	0	0	42,350	
Fences		33,806	8,544	0	0	42,350	
D 060373 Habitat and Feeding Facilities							
D 06037302 Sitework							
D 06037302 01 Planting Trees	107.00 AC	16,050	3,600	0	0	19,650	183.64
Sitework		16,050	3,600	0	0	19,650	
Habitat and Feeding Facil		16,050	3,600	0	0	19,650	
Wildlife Facilities & San		49,856	12,144	0	0	62,000	
Fish & Wildlife Facilitie		49,856	12,144	0	0	62,000	
D 09 Channels and Canals							
D 0901 Channels							
D 090101 Mob & Demob							
D 09010101 Mob & Demob		150,000	29,777	0	0	179,777	

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Mob & Demob		150,000	29,777	0	0	179,777	
Mob & Demob		150,000	29,777	0	0	179,777	
D 090115 Mechanical Dredging							
D 09011502 Site Work							
D 09011502 01 Clearing for Channel Dred	164.00 AC	967,600	192,146	0	0	1,159,746	7071.62
D 09011502 02 Excavation	517600.00 CY	2,639,760	524,201	0	0	3,163,961	6.11
Site Work		3,607,360	716,347	0	0	4,323,707	
Mechanical Dredging		3,607,360	716,347	0	0	4,323,707	
D 090130 Bank Stabilization							
D 09013002 Site Work							
D 09013002 01 Geotextile Mat Turf Reinf	887000.00 SY	5,322,000	1,060,000	0	0	6,382,000	7.20
D 09013002 02 R-90 Stone	137800.00 TN	2,687,100	533,577	0	0	3,220,677	23.37
D 09013002 03 Hydromulch	551500.00 SY	137,875	27,379	0	0	165,254	0.30
D 09013002 04 Excavation for stone	141400.00 CY	721,140	143,196	0	0	864,336	6.11
D 09013002 05 Fuseplug Dams		102,000	20,249	0	0	122,249	
Site Work		8,970,115	1,784,401	0	0	10,754,516	
Bank Stabilization		8,970,115	1,784,401	0	0	10,754,516	
D 090199 Associated General Items							
D 09019906 Aesthetic Plantings							
D 09019906 01 Aesthetic Tree Planting	5700.00 EA	85,500	21,500	0	0	107,000	18.77
Aesthetic Plantings		85,500	21,500	0	0	107,000	
Associated General Items		85,500	21,500	0	0	107,000	
Channels		12,812,975	2,552,025	0	0	15,365,000	
Channels and Canals		12,812,975	2,552,025	0	0	15,365,000	
D 29 Project Cooperation Agreements							
D 2900 Project Cooperation Agreements							

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
D 290000 Project Cooperation Agreements							
D 29000000 Project Cooperation Agreements							
Project Cooperation Agree	4,100	900	0	0		5,000	
Project Cooperation Agree	4,100	900	0	0		5,000	
Project Cooperation Agree	4,100	900	0	0		5,000	
Project Cooperation Agree	4,100	900	0	0		5,000	
D 30 Engineering and Design							
D 3000 Engineering and Design							
D 300000 Engineering and Design							
D 30000000 Engineering and Design							
Engineering and Design	1,226,000	241,000	0	0		1,467,000	
Engineering and Design	1,226,000	241,000	0	0		1,467,000	
Engineering and Design	1,226,000	241,000	0	0		1,467,000	
Engineering and Design	1,226,000	241,000	0	0		1,467,000	
D 31 Construction Management							
D 3100 Construction Management							
D 310000 Construction Management							
D 31000000 Construction Management							
Construction Management	708,000	142,000	0	0		850,000	
Construction Management	708,000	142,000	0	0		850,000	
Construction Management	708,000	142,000	0	0		850,000	
Construction Management	708,000	142,000	0	0		850,000	
Blackwater Bayou	17,952,611	3,737,389	0	0		21,690,000	

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E Ward Creek							
E 01 Lands and Damages							
E 0100 Lands and Damages							
E 010000 Lands and Damages							
E 01000000 Lands and Damages							
Lands and Damages	122,540	32,460	0	0	155,000		
Lands and Damages	122,540	32,460	0	0	155,000		
Lands and Damages	122,540	32,460	0	0	155,000		
Lands and Damages	122,540	32,460	0	0	155,000		
E 06 Fish & Wildlife Facilities							
E 0603 Wildlife Facilities & Sanctuary							
E 060371 Fences							
E 06037102 Sitenwork							
E 06037102 01 Fencing - barbed wire	1838.00 LF	10,017	2,828	0	0	12,845	6.99
Sitenwork		10,017	2,828	0	0	12,845	
Fences		10,017	2,828	0	0	12,845	
E 060373 Habitat and Feeding Facilities							
E 06037302 Sitenwork							
E 06037302 01 Planting Trees	32.00 AC	4,800	1,355	0	0	6,155	192.34
Sitenwork		4,800	1,355	0	0	6,155	
Habitat and Feeding Facil		4,800	1,355	0	0	6,155	
Wildlife Facilities & San		14,817	4,183	0	0	19,000	
Fish & Wildlife Facilitie		14,817	4,183	0	0	19,000	
E 09 Channels and Canals							

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E 0901 Channels							
E 090101 Mob & Demob							
E 09010101 Mob & Demob							
E 09010101 01 Mob & Demob		150,000	36,806	0	0	186,806	
Mob & Demob		150,000	36,806	0	0	186,806	
Mob & Demob		150,000	36,806	0	0	186,806	
E 090115 Mechanical Dredging							
E 09011502 Sitework							
E 09011502 01 Clearing for Channel Dred	20.00 AC	118,000	28,954	0	0	146,954	7347.70
E 09011502 02 Excavation	143000.00 CY	965,250	236,850	0	0	1,202,100	8.41
E 09011502 03 Clearing and Snagging	13.00 MI	247,000	60,608	0	0	307,608	23662.15
Sitework		1,330,250	326,412	0	0	1,656,662	
Mechanical Dredging		1,330,250	326,412	0	0	1,656,662	
E 090130 Bank Stabilization							
E 09013002 Sitework							
E 09013002 01 sand (8" thick)	13200.00 CY	138,600	34,009	0	0	172,609	13.08
E 09013002 02 Filter Drain Fabric	59300.00 SY	444,750	109,131	0	0	553,881	9.34
E 09013002 03 Fuseplug Dams		40,000	9,815	0	0	49,815	
Sitework		623,350	152,955	0	0	776,305	
E 09013003 Concrete							
E 09013003 01 Cutoff Wall	400.00 CY	60,000	14,723	0	0	74,723	186.81
E 09013003 02 Channel Wall Pavement (4"	8800.00 CY	1,144,000	284,810	0	0	1,428,810	162.36
E 09013003 03 Channel Wall Pavement (6"	6600.00 CY	990,000	246,510	0	0	1,236,510	187.35
E 09013003 04 Channel Wall Pavement (8"	4500.00 CY	675,000	165,629	0	0	840,629	186.81
E 09013003 05 drain ditch	2200.00 CY	286,000	70,178	0	0	356,178	161.90
Concrete		3,155,000	781,850	0	0	3,936,850	
Bank Stabilization		3,778,350	934,805	0	0	4,713,155	

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E 090199 Associated General Items							
E 09019902 Sitework (Construction Acces							
E 09019902 01 excavation	6500.00 CY	47,125	11,563	0	0	58,688	9.03
E 09019902 02 Filter Fabric	19400.00 SY	67,900	16,661	0	0	84,561	4.36
E 09019902 03 Crushed stone	9000.00 TON	216,000	53,001	0	0	269,001	29.89
E 09019902 04 Obstruction Removal	5600.00 LF	56,000	13,741	0	0	69,741	12.45
Sitework (Construction Ac		387,025	94,966	0	0	481,991	
E 09019905 Metals							
E 09019905 01 Fence (chain link)	11200.00 LF	92,400	22,673	0	0	115,073	10.27
Metals		92,400	22,673	0	0	115,073	
E 09019906 Aesthetic Plantings							
E 09019906 01 Aesthetic Tree Planting	650.00 EA	9,750	2,438	0	0	12,188	18.75
E 09019906 02 Aesthetic Shrub Planting	1100.00 EA	12,100	3,025	0	0	15,125	13.75
Aesthetic Plantings		21,850	5,463	0	0	27,313	
Associated General Items		501,275	123,102	0	0	624,377	
Channels		5,759,875	1,421,125	0	0	7,181,000	
Channels and Canals		5,759,875	1,421,125	0	0	7,181,000	
E 29 Project Cooperation Agreements							
E 2900 Project Cooperation Agreements							
E 2900000 Project Cooperation Agreements							
E 29000000 Project Cooperation Agreements							
Project Cooperation Agree		2,400	600	0	0	3,000	
Project Cooperation Agree		2,400	600	0	0	3,000	
Project Cooperation Agree		2,400	600	0	0	3,000	
Project Cooperation Agree		2,400	600	0	0	3,000	

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 PROJECT EBR001: East Baton Rouge Psh Feas. - NED
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 ** PROJECT OWNER SUMMARY - LEVEL 6 **

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	QUANTITY UOM	CONTRACT	CONTINGN	Contingn	OTHER	TOTAL COST	UNIT COST
E 30 Engineering and Design							
E 3000 Engineering and Design							
E 300000 Engineering and Design							
E 30000000 Engineering and Design							
Engineering and Design		1,303,000	248,000	0	0	1,551,000	
Engineering and Design		1,303,000	248,000	0	0	1,551,000	
Engineering and Design		1,303,000	248,000	0	0	1,551,000	
Engineering and Design		1,303,000	248,000	0	0	1,551,000	
E 31 Construction Management							
E 3100 Construction Management							
E 310000 Construction Management							
E 31000000 Construction Management							
Construction Management		467,000	94,000	0	0	561,000	
Construction Management		467,000	94,000	0	0	561,000	
Construction Management		467,000	94,000	0	0	561,000	
Construction Management		467,000	94,000	0	0	561,000	
Ward Creek		7,669,632	1,800,368	0	0	9,470,000	
East Baton Rouge Psh Feas	1.00 EA	88,633,948	20,466,052	0	0	109,100,000	109100000

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A Bayou Fountain									
A 01 Lands and Damages		1,019,000	0	0	0	0	0	1,019,000	
A 02 Relocations		3,000	0	0	0	0	0	3,000	
A 06 Fish & Wildlife Facili		8,888	2,222	0	0	0	0	11,110	
A 09 Channels and Canals		1,444,532	361,133	0	0	0	0	1,805,665	
A 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
A 30 Engineering and Design		851,000	0	0	0	0	0	851,000	
A 31 Construction Managemen		304,000	0	0	0	0	0	304,000	
Bayou Fountain		3,634,520	363,355	0	0	0	0	3,997,875	
B Jones Creek									
B 01 Lands and Damages		393,020	0	0	0	0	0	393,020	
B 06 Fish & Wildlife Facili		41,363	10,341	0	0	0	0	51,704	
B 09 Channels and Canals		28,362,480	7,090,620	0	0	0	0	35,453,100	
B 14 Recreation Facilities		727,037	181,759	0	0	0	0	908,797	
B 29 Project Cooperation Ag		1,700	0	0	0	0	0	1,700	
B 30 Engineering and Design		2,504,000	0	0	0	0	0	2,504,000	
B 31 Construction Managemen		2,649,000	0	0	0	0	0	2,649,000	
Jones Creek		34,678,601	7,282,720	0	0	0	0	41,961,321	
C Beaver Bayou									
C 01 Lands and Damages		1,512,590	0	0	0	0	0	1,512,590	
C 02 Relocations		1,682,240	0	0	0	0	0	1,682,240	
C 06 Fish & Wildlife Facili		45,808	11,452	0	0	0	0	57,259	
C 09 Channels and Canals		9,570,656	2,392,664	0	0	0	0	11,963,320	
C 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
C 30 Engineering and Design		1,250,000	0	0	0	0	0	1,250,000	
C 31 Construction Managemen		583,000	0	0	0	0	0	583,000	
Beaver Bayou		14,648,393	2,404,116	0	0	0	0	17,052,509	
D Blackwater Bayou									
D 01 Lands & Damages		1,476,000	0	0	0	0	0	1,476,000	
D 02 Relocations		1,675,680	0	0	0	0	0	1,675,680	
D 06 Fish & Wildlife Facili		39,885	9,971	0	0	0	0	49,856	
D 09 Channels and Canals		10,250,380	2,562,595	0	0	0	0	12,812,975	
D 29 Project Cooperation Ag		4,100	0	0	0	0	0	4,100	
D 30 Engineering and Design		1,226,000	0	0	0	0	0	1,226,000	
D 31 Construction Managemen		708,000	0	0	0	0	0	708,000	
Blackwater Bayou		15,380,045	2,572,566	0	0	0	0	17,952,611	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
E Ward Creek									
E 01 Lands and Damages		122,540	0	0	0	0	0	122,540	
E 06 Fish & Wildlife Facili		11,854	2,963	0	0	0	0	14,817	
E 09 Channels and Canals		4,607,900	1,151,975	0	0	0	0	5,759,875	
E 29 Project Cooperation Ag		2,400	0	0	0	0	0	2,400	
E 30 Engineering and Design		1,303,000	0	0	0	0	0	1,303,000	
E 31 Construction Managemen		467,000	0	0	0	0	0	467,000	
Ward Creek		6,514,694	1,154,938	0	0	0	0	7,669,632	
East Baton Rouge Psh F Contingency	1.00 EA	74,856,253	13777696	0	0	0	0	88,633,948	88633948
								20,466,052	
TOTAL INCL OWNER COSTS								109,100,000	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A Bayou Fountain									
A 01 Lands and Damages									
A 0100 Lands and Damages									
A 010000 Lands and Damages									
A 01000000 Lands and Damage									
Lands and Dam	1,019,000	0	0	0	0	0	0	1,019,000	
Lands and Dam	1,019,000	0	0	0	0	0	0	1,019,000	
Lands and Dam	1,019,000	0	0	0	0	0	0	1,019,000	
Lands and Dam	1,019,000	0	0	0	0	0	0	1,019,000	
A 02 Relocations									
A 0200 Relocations									
A 020000 Relocations									
A 02000000 Relocations									
Relocations	3,000	0	0	0	0	0	0	3,000	
Relocations	3,000	0	0	0	0	0	0	3,000	
Relocations	3,000	0	0	0	0	0	0	3,000	
Relocations	3,000	0	0	0	0	0	0	3,000	
A 06 Fish & Wildlife Facili									
A 0603 Wildlife Facilities									
A 060371 Fences									
A 06037102 Sitenwork									
A 06037102 01 Fencing - bar 1378.00 LF	6,008	1,502	0	0	0	0	0	7,510	
Sitenwork	6,008	1,502	0	0	0	0	0	7,510	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
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Fences		6,008	1,502	0	0	0	0	7,510	
--------	--	-------	-------	---	---	---	---	-------	--

A 060373 Habitat and Feedin

A 06037302 Sitework

A 06037302 01 Planting Tree	24.00 AC	2,880	720	0	0	0	0	3,600	150.00
Sitework		2,880	720	0	0	0	0	3,600	
Habitat and F		2,880	720	0	0	0	0	3,600	
Wildlife Faci		8,888	2,222	0	0	0	0	11,110	
Fish & Wildli		8,888	2,222	0	0	0	0	11,110	

A 09 Channels and Canals

0901 Channels

A 090101 Mob & Demob

A 09010101 Mob & Demob

A 09010101 01 Mob & Demob		80,000	20,000	0	0	0	0	100,000	
Mob & Demob		80,000	20,000	0	0	0	0	100,000	
Mob & Demob		80,000	20,000	0	0	0	0	100,000	

A 090115 Mechanical Dredgin

A 09011502 Sitework

A 09011502 01 Clearing and	8.00 MI	121,600	30,400	0	0	0	0	152,000	19000.00
A 09011502 02 Clearing for	47.00 AC	221,840	55,460	0	0	0	0	277,300	5900.00
A 09011502 03 Excavation	283000.00 CY	882,960	220,740	0	0	0	0	1,103,700	3.90
Sitework		1,226,400	306,600	0	0	0	0	1,533,000	
Mechanical Dr		1,226,400	306,600	0	0	0	0	1,533,000	

090130 Bank Stabilization

A 09013002 Sitework

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		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
A 09013002 01	Filter Drain	6460.00 SY	38,760	9,690	0	0	0	0	48,450	7.50
A 09013002 02	sand (8" thick)	160.00 CY	960	240	0	0	0	0	1,200	7.50
A 09013002 03	riprap 16" -	890.00 TON	16,376	4,094	0	0	0	0	20,470	23.00
	Sitework		56,096	14,024	0	0	0	0	70,120	
A 09013003 Concrete										
A 09013003 01	1 FT U-frame	67.00 CY	9,648	2,412	0	0	0	0	12,060	180.00
A 09013003 02	1 FT U-frame	100.00 CY	24,000	6,000	0	0	0	0	30,000	300.00
A 09013003 03	Channel Wall	55.00 CY	5,720	1,430	0	0	0	0	7,150	130.00
A 09013003 04	Channel Wall	43.00 CY	5,160	1,290	0	0	0	0	6,450	150.00
A 09013003 05	Channel Wall	62.00 CY	7,440	1,860	0	0	0	0	9,300	150.00
	Concrete		51,968	12,992	0	0	0	0	64,960	
	Bank Stabiliz		108,064	27,016	0	0	0	0	135,080	
A 090199 Associated General										
A 09019905 Metals										
A 09019905 01	Fence (chain)	300.00 LF	1,980	495	0	0	0	0	2,475	8.25
	Metals		1,980	495	0	0	0	0	2,475	
A 09019906 Aesthetic Plant										
A 09019906 01	Aesthetic Tre	1050.00 EA	12,600	3,150	0	0	0	0	15,750	15.00
A 09019906 02	Aesthetic Shr	1760.00 EA	15,488	3,872	0	0	0	0	19,360	11.00
	Aesthetic Pla		28,088	7,022	0	0	0	0	35,110	
	Associated Ge		30,068	7,517	0	0	0	0	37,585	
	Channels		1,444,532	361,133	0	0	0	0	1,805,665	
	Channels and		1,444,532	361,133	0	0	0	0	1,805,665	
A 29 Project Cooperation Ag										
A 2900 Project Cooperation										
A 2900000 Project Cooperatio										
A 29000000 Project Cooperat										

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QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
--------------	--------	----------	----------	----------	--------	------	------------	-----------

Project Coope	4,100	0	0	0	0	0	4,100
Project Coope	4,100	0	0	0	0	0	4,100
Project Coope	4,100	0	0	0	0	0	4,100
Project Coope	4,100	0	0	0	0	0	4,100

A 30 Engineering and Design

A 3000 Engineering and Desi

A 300000 Engineering and De

A 30000000 Engineering and

Engineering a	851,000	0	0	0	0	0	851,000
Engineering a	851,000	0	0	0	0	0	851,000
Engineering a	851,000	0	0	0	0	0	851,000
Engineering a	851,000	0	0	0	0	0	851,000

A 31 Construction Managemen

A 3100 Construction Managem

A 310000 Construction Manag

A 31000000 Construction Man

Construction	304,000	0	0	0	0	0	304,000
Construction	304,000	0	0	0	0	0	304,000
Construction	304,000	0	0	0	0	0	304,000
Construction	304,000	0	0	0	0	0	304,000
Bayou Fountai	3,634,520	363,355	0	0	0	0	3,997,875

Jones Creek

B 01 Lands and Damages

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
B 0100 Lands and Damages									
B 0100000 Lands and Damages									
B 01000000 Lands and Damage									
Lands and Dam		393,020	0	0	0	0	0	393,020	
Lands and Dam		393,020	0	0	0	0	0	393,020	
Lands and Dam		393,020	0	0	0	0	0	393,020	
Lands and Dam		393,020	0	0	0	0	0	393,020	
B 06 Fish & Wildlife Facili									
B 0603 Wildlife Facilities									
B 060371 Fences									
B 06037102 Sitework									
B 06037102 01 Fencing - bar	6432.00 LF	28,043	7,011	0	0	0	0	35,054	5.45
Sitework		28,043	7,011	0	0	0	0	35,054	
Fences		28,043	7,011	0	0	0	0	35,054	
B 060373 Habitat and Feedin									
B 06037302 Sitework									
B 06037302 01 Planting Tree	111.00 AC	13,320	3,330	0	0	0	0	16,650	150.00
Sitework		13,320	3,330	0	0	0	0	16,650	
Habitat and F		13,320	3,330	0	0	0	0	16,650	
Wildlife Faci		41,363	10,341	0	0	0	0	51,704	
Fish & Wildli		41,363	10,341	0	0	0	0	51,704	
B 09 Channels and Canals									
B 0901 Channels									
B 090101 Mob & Demob									

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
B 09010101 Mob & Demob									
B 09010101 01 Mob & Demob		376,000	94,000	0	0	0	0	470,000	
Mob & Demob		376,000	94,000	0	0	0	0	470,000	
Mob & Demob		376,000	94,000	0	0	0	0	470,000	
B 090115 Mechanical Dredgin									
B 09011502 Site Work									
B 09011502 01 Clearing for 272.00 AC		674,560	168,640	0	0	0	0	843,200	3100.00
B 09011502 02 Degrading, ha 162000.00 CY		1,296,000	324,000	0	0	0	0	1,620,000	10.00
B 09011502 03 Clearing and 3.00 MI		45,600	11,400	0	0	0	0	57,000	19000.00
Site Work		2,016,160	504,040	0	0	0	0	2,520,200	
Mechanical Dr		2,016,160	504,040	0	0	0	0	2,520,200	
B 090130 Bank Stabilization									
B 09013002 Site Work									
B 09013002 01 sand (8" thic 84000.00 CY		779,520	194,880	0	0	0	0	974,400	11.60
B 09013002 02 Filter Drain 418700.00 SY		2,512,200	628,050	0	0	0	0	3,140,250	7.50
B 09013002 03 Fuseplug Dams		86,400	21,600	0	0	0	0	108,000	
Site Work		3,378,120	844,530	0	0	0	0	4,222,650	
B 09013003 Concrete									
B 09013003 01 Cutoff Wall 6150.00 CY		738,000	184,500	0	0	0	0	922,500	150.00
B 09013003 02 Channel Wall 82300.00 CY		8,559,200	2,139,800	0	0	0	0	10,699,000	130.00
B 09013003 03 Channel Wall 61300.00 CY		7,356,000	1,839,000	0	0	0	0	9,195,000	150.00
B 09013003 04 Channel Wall 11000.00 CY		1,320,000	330,000	0	0	0	0	1,650,000	150.00
B 09013003 05 drain ditch 33100.00 CY		3,442,400	860,600	0	0	0	0	4,303,000	130.00
Concrete		21,415,600	5,353,900	0	0	0	0	26,769,500	
Bank Stabiliz		24,793,720	6,198,430	0	0	0	0	30,992,150	
B 090199 Associated General									
B 09019905 Metals									

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		QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
B 09019905 01	Fence (chain	171000.00 LF	1,128,600	282,150	0	0	0	0	1,410,750	8.25
	Metals		1,128,600	282,150	0	0	0	0	1,410,750	
<hr/>										
B 09019906 01	Aesthetic Plant									
B 09019906 01	Aesthetic Tre	1800.00 EA	21,600	5,400	0	0	0	0	27,000	15.00
B 09019906 02	Aesthetic Shr	3000.00 EA	26,400	6,600	0	0	0	0	33,000	11.00
	Aesthetic Pla		48,000	12,000	0	0	0	0	60,000	
	Associated Ge		1,176,600	294,150	0	0	0	0	1,470,750	
	Channels		28,362,480	7,090,620	0	0	0	0	35,453,100	
	Channels and		28,362,480	7,090,620	0	0	0	0	35,453,100	
<hr/>										
B 14	Recreation Facilities									
B 1400										
B 140022	Parking Lots and S									
<hr/>										
B 14002202	Site Work									
B 14002202 02	Bridge - 10'		18,800	4,700	0	0	0	0	23,500	
B 14002202 03	Bridge - 10'		84,800	21,200	0	0	0	0	106,000	
B 14002202 04	Signs & Marke	20.00 EA	2,560	640	0	0	0	0	3,200	160.00
B 14002202 05	Trees	4431.00 EA	53,172	13,293	0	0	0	0	66,465	15.00
B 14002202 06	Fence (6' Woo	55440.00 LF	567,706	141,926	0	0	0	0	709,632	12.80
	Site Work		727,037	181,759	0	0	0	0	908,797	
	Parking Lots		727,037	181,759	0	0	0	0	908,797	
			727,037	181,759	0	0	0	0	908,797	
	Recreation Fa		727,037	181,759	0	0	0	0	908,797	
<hr/>										
B 29	Project Cooperation Ag									
B 2900	Project Cooperation									
B 290000	Project Cooperatio									
<hr/>										
B 29000000	Project Cooperat									

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Project Coops		1,700	0	0	0	0	0	1,700	
Project Coops		1,700	0	0	0	0	0	1,700	
Project Coops		1,700	0	0	0	0	0	1,700	
Project Coops		1,700	0	0	0	0	0	1,700	
B 30 Engineering and Design									
B 3000 Engineering and Desi									
B 300000 Engineering and De									
B 30000000 Engineering and									
Engineering a		2,504,000	0	0	0	0	0	2,504,000	
Engineering a		2,504,000	0	0	0	0	0	2,504,000	
Engineering a		2,504,000	0	0	0	0	0	2,504,000	
Engineering a		2,504,000	0	0	0	0	0	2,504,000	
B 31 Construction Managemen									
B 3100 Construction Managem									
B 310000 Construction Manag									
B 31000000 Construction Man									
Construction		2,649,000	0	0	0	0	0	2,649,000	
Construction		2,649,000	0	0	0	0	0	2,649,000	
Construction		2,649,000	0	0	0	0	0	2,649,000	
Construction		2,649,000	0	0	0	0	0	2,649,000	
Jones Creek		34,678,601	7,282,720	0	0	0	0	41,961,321	

C Beaver Bayou

U1 Lands and Damages

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
C 0100 Lands and Damages									
C 010000 Lands and Damages									
C 01000000 Lands and Damage									
<hr/>									
Lands and Dam		1,512,590	0	0	0	0	0	1,512,590	
Lands and Dam		1,512,590	0	0	0	0	0	1,512,590	
Lands and Dam		1,512,590	0	0	0	0	0	1,512,590	
Lands and Dam		1,512,590	0	0	0	0	0	1,512,590	
<hr/>									
C 02 Relocations									
C 0200 Relocations									
C 020000 Relocations									
C 02000000 Relocations									
<hr/>									
Relocations		1,682,240	0	0	0	0	0	1,682,240	
Relocations		1,682,240	0	0	0	0	0	1,682,240	
Relocations		1,682,240	0	0	0	0	0	1,682,240	
Relocations		1,682,240	0	0	0	0	0	1,682,240	
<hr/>									
C 06 Fish & Wildlife Facili									
C 0603 Wildlife Facilities									
C 060371 Fences									
C 06037102 Sitenwork									
C 06037102 01 Fencing - bar 7121.00 LF		31,048	7,762	0	0	0	0	38,809	5.45
Sitenwork		31,048	7,762	0	0	0	0	38,809	
Fences		31,048	7,762	0	0	0	0	38,809	
C 060373 Habitat and Feedin									

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 ** PROJECT INDIRECT SUMMARY - LEVEL 6 **

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
C 06037302 Sitenwork									
C 06037302 01 Planting Tree	123.00 AC	14,760	3,690	0	0	0	0	18,450	150.00
Sitenwork		14,760	3,690	0	0	0	0	18,450	
Habitat and F		14,760	3,690	0	0	0	0	18,450	
Wildlife Faci		45,808	11,452	0	0	0	0	57,259	
Fish & Wildli		45,808	11,452	0	0	0	0	57,259	
C 09 Channels and Canals									
C 0901 Channels									
C 090101 Mob & Demob									
C 09010101 Mob & Demob									
C 09010101 01 Mob & Demob		176,000	44,000	0	0	0	0	220,000	
Mob & Demob		176,000	44,000	0	0	0	0	220,000	
Mob & Demob		176,000	44,000	0	0	0	0	220,000	
C 090115 Mechanical Dredgin									
C 09011502 Sitenwork									
C 09011502 01 Clearing for	220.00 AC	1,038,400	259,600	0	0	0	0	1,298,000	5900.00
C 09011502 02 Excavation	695000.00 CY	3,113,600	778,400	0	0	0	0	3,892,000	5.60
Sitenwork		4,152,000	1,038,000	0	0	0	0	5,189,999	
Mechanical Dr		4,152,000	1,038,000	0	0	0	0	5,189,999	
C 090130 Bank Stabilization									
C 09013002 Site Work									
C 09013002 01 Geotextile Ma	545100.00 SY	2,616,480	654,120	0	0	0	0	3,270,600	6.00
C 09013002 02 R-90 Stone	130200.00 TN	1,926,960	481,740	0	0	0	0	2,408,700	18.50
C 09013002 03 Hydromulch	322400.00 SY	64,480	16,120	0	0	0	0	80,600	0.25
C 09013002 04 Excavation fo	115700.00 CY	518,336	129,584	0	0	0	0	647,920	5.60
C 09013002 05 Fuseplug Dams		62,400	15,600	0	0	0	0	78,000	
Site Work		5,188,656	1,297,164	0	0	0	0	6,485,821	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
C 09013003 Concrete									
<hr/>									
Bank Stabiliz		5,188,656	1,297,164		0	0	0	0	6,485,821
<hr/>									
C 090199 Associated General									
<hr/>									
C 09019906 Aesthetic Plant									
C 09019906 01 Aesthetic Tre	4500.00 EA	54,000	13,500		0	0	0	0	67,500
Aesthetic Pla		54,000	13,500		0	0	0	0	67,500
Associated Ge		54,000	13,500		0	0	0	0	67,500
Channels		9,570,656	2,392,664		0	0	0	0	11,963,320
Channels and		9,570,656	2,392,664		0	0	0	0	11,963,320
<hr/>									
C 29 Project Cooperation Ag									
C 2900 Project Cooperation									
C 290000 Project Cooperatio									
<hr/>									
C 29000000 Project Cooperat									
Project Coope		4,100	0		0	0	0	0	4,100
Project Coope		4,100	0		0	0	0	0	4,100
Project Coope		4,100	0		0	0	0	0	4,100
Project Coope		4,100	0		0	0	0	0	4,100
<hr/>									
C 30 Engineering and Design									
C 3000 Engineering and Desi									
C 300000 Engineering and De									
<hr/>									
C 30000000 Engineering and									
Engineering a		1,250,000	0		0	0	0	0	1,250,000
Engineering a		1,250,000	0		0	0	0	0	1,250,000

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Engineering a		1,250,000	0	0	0	0	0	1,250,000	
Engineering a		1,250,000	0	0	0	0	0	1,250,000	
C 31 Construction Managemen									
C 3100 Construction Managem									
C 310000 Construction Manag									
C 31000000 Construction Man									
Construction		583,000	0	0	0	0	0	583,000	
Construction		583,000	0	0	0	0	0	583,000	
Construction		583,000	0	0	0	0	0	583,000	
Construction		583,000	0	0	0	0	0	583,000	
Beaver Bayou		14,648,393	2,404,116	0	0	0	0	17,052,509	
D Blackwater Bayou									
D 01 Lands & Damages									
D 0100 Lands & Damages									
D 01000000 Lands & Damages									
Lands & Damag		1,476,000	0	0	0	0	0	1,476,000	
Lands & Damag		1,476,000	0	0	0	0	0	1,476,000	
Lands & Damag		1,476,000	0	0	0	0	0	1,476,000	
Lands & Damag		1,476,000	0	0	0	0	0	1,476,000	

D 02 Relocations

0200 Relocations

D 020000 Relocations

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
D 02000000 Relocations									
Relocations		1,675,680	0	0	0	0	0	1,675,680	
Relocations		1,675,680	0	0	0	0	0	1,675,680	
Relocations		1,675,680	0	0	0	0	0	1,675,680	
Relocations		1,675,680	0	0	0	0	0	1,675,680	
D 06 Fish & Wildlife Facili									
D 0603 Wildlife Facilities									
D 060371 Fences									
D 06037102 Sitework									
D 06037102 01 Fencing - bar	6203.00 LF	27,045	6,761	0	0	0	0	33,806	
Sitework		27,045	6,761	0	0	0	0	33,806	
Fences		27,045	6,761	0	0	0	0	33,806	
D 060373 Habitat and Feedin									
D 06037302 Sitework									
D 06037302 01 Planting Tree	107.00 AC	12,840	3,210	0	0	0	0	16,050	150.00
Sitework		12,840	3,210	0	0	0	0	16,050	
Habitat and F		12,840	3,210	0	0	0	0	16,050	
Wildlife Faci		39,885	9,971	0	0	0	0	49,856	
Fish & Wildli		39,885	9,971	0	0	0	0	49,856	
D 09 Channels and Canals									
D 0901 Channels									
D 090101 Mob & Demob									
D 09010101 Mob & Demob									
D 09010101 01 Mob & Demob		120,000	30,000	0	0	0	0	150,000	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
Mob & Demob		120,000	30,000	0	0	0	0	150,000	
Mob & Demob		120,000	30,000	0	0	0	0	150,000	

D 090115 Mechanical Dredgin

D 09011502 Site Work

D 09011502 01	Clearing for	164.00 AC	774,080	193,520	0	0	0	0	967,600	5900.00
D 09011502 02	Excavation	517600.00 CY	2,111,808	527,952	0	0	0	0	2,639,760	5.10
	Site Work		2,885,888	721,472	0	0	0	0	3,607,360	
	Mechanical Dr		2,885,888	721,472	0	0	0	0	3,607,360	

D 090130 Bank Stabilization

09013002 Site Work

D 09013002 01	Gmotextile Ma	887000.00 SY	4,257,600	1,064,400	0	0	0	0	5,322,000	6.00
D 09013002 02	R-90 Stone	137800.00 TN	2,149,680	537,420	0	0	0	0	2,687,100	19.50
D 09013002 03	Hydromulch	551500.00 SY	110,300	27,575	0	0	0	0	137,875	0.25
D 09013002 04	Excavation fo	141400.00 CY	576,912	144,228	0	0	0	0	721,140	5.10
D 09013002 05	Fuseplug Dams		81,600	20,400	0	0	0	0	102,000	
	Site Work		7,176,092	1,794,023	0	0	0	0	8,970,115	
	Bank Stabiliz		7,176,092	1,794,023	0	0	0	0	8,970,115	

D 090199 Associated General

D 09019906 Aesthetic Plantl

D 09019906 01	Aesthetic Tre	5700.00 EA	68,400	17,100	0	0	0	0	85,500	15.00
	Aesthetic Pla		68,400	17,100	0	0	0	0	85,500	
	Associated Ge		68,400	17,100	0	0	0	0	85,500	
	Channels		10,250,380	2,562,595	0	0	0	0	12,812,975	
	Channels and		10,250,380	2,562,595	0	0	0	0	12,812,975	

D 29 Project Cooperation Ag

D 2900 Project Cooperation

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
D 2800000 Project Cooperatio									
<hr/>									
D 29000000 Project Cooperat									
<hr/>									
Project Coope		4,100	0	0	0	0	0	4,100	
Project Coope		4,100	0	0	0	0	0	4,100	
Project Coope		4,100	0	0	0	0	0	4,100	
Project Coope		4,100	0	0	0	0	0	4,100	
<hr/>									
D 30 Engineering and Design									
D 3000 Engineering and Desi									
D 300000 Engineering and De									
D 30000000 Engineering and									
<hr/>									
Engineering a		1,226,000	0	0	0	0	0	1,226,000	
Engineering a		1,226,000	0	0	0	0	0	1,226,000	
Engineering a		1,226,000	0	0	0	0	0	1,226,000	
Engineering a		1,226,000	0	0	0	0	0	1,226,000	
<hr/>									
D 31 Construction Managemen									
D 3100 Construction Managem									
D 310000 Construction Manag									
D 31000000 Construction Man									
<hr/>									
Construction		708,000	0	0	0	0	0	708,000	
Construction		708,000	0	0	0	0	0	708,000	
Construction		708,000	0	0	0	0	0	708,000	
Construction		708,000	0	0	0	0	0	708,000	
Blackwater Ba		15,380,045	2,572,566	0	0	0	0	17,952,611	

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QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
--------------	--------	----------	----------	----------	--------	------	------------	-----------

E Ward Creek**E 01 Lands and Damages****E 0100 Lands and Damages****E 010000 Lands and Damages****E 01000000 Lands and Damage**

Lands and Dam	122,540	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	122,540
Lands and Dam	122,540	0	0	0	0	0	122,540

06 Fish & Wildlife Facili**E 0603 Wildlife Facilities****E 060371 Fences****E 06037102 Sitenwork**

E 06037102 01 Fencing - bar	1838.00 LF	8,014	2,003	0	0	0	0	10,017	5.45
Sitenwork		8,014	2,003	0	0	0	0	10,017	
Fences		8,014	2,003	0	0	0	0	10,017	

E 060373 Habitat and Feedin**E 06037302 Sitenwork**

E 06037302 01 Planting Tree	32.00 AC	3,840	960	0	0	0	0	4,800	149.99
Sitenwork		3,840	960	0	0	0	0	4,800	
Habitat and F		3,840	960	0	0	0	0	4,800	
Wildlife Faci		11,854	2,963	0	0	0	0	14,817	
Fish & Wildli		11,854	2,963	0	0	0	0	14,817	

E 09 Channels and Canals

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
--	--------------	--------	----------	----------	----------	--------	------	------------	-----------

E 0901 Channels

E 090101 Mob & Demob

E 09010101 Mob & Demob

E 09010101 01 Mob & Demob	120,000	30,000	0	0	0	0	150,000
Mob & Demob	120,000	30,000	0	0	0	0	150,000
Mob & Demob	120,000	30,000	0	0	0	0	150,000

E 090115 Mechanical Dredgin

E 09011502 Sitenwork

E 09011502 01 Clearing for 20.00 AC	94,400	23,600	0	0	0	0	118,000	5900.00
E 09011502 02 Excavation 143000.00 CY	772,200	193,050	0	0	0	0	965,250	6.75
E 09011502 03 Clearing and 13.00 MI	197,600	49,400	0	0	0	0	247,000	1900
Sitenwork	1,064,200	266,050	0	0	0	0	1,330,250	
Mechanical Dr	1,064,200	266,050	0	0	0	0	1,330,250	

E 090130 Bank Stabilization

E 09013002 Sitenwork

E 09013002 01 sand (8" thic 13200.00 CY	110,880	27,720	0	0	0	0	138,600	10.50
E 09013002 02 Filter Drain 59300.00 SY	355,800	88,950	0	0	0	0	444,750	7.50
E 09013002 03 Fuseplug Dams	32,000	8,000	0	0	0	0	40,000	
Sitenwork	498,680	124,670	0	0	0	0	623,350	

E 09013003 Concrete

E 09013003 01 Cutoff wall 400.00 CY	48,000	12,000	0	0	0	0	60,000	150.00
E 09013003 02 Channel Wall 8800.00 CY	915,200	228,800	0	0	0	0	1,144,000	130.00
E 09013003 03 Channel Wall 6600.00 CY	792,000	198,000	0	0	0	0	990,000	150.00
E 09013003 04 Channel Wall 4500.00 CY	540,000	135,000	0	0	0	0	675,000	150.00
E 09013003 05 drain ditch 2200.00 CY	228,800	57,200	0	0	0	0	286,000	130.00
Concrete	2,524,000	631,000	0	0	0	0	3,155,000	
Bank Stabiliz	3,022,680	755,670	0	0	0	0	3,778,350	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
E 090199 Associated General									
E 09019902 Sitework (Constr									
E 09019902 01 excavation	6500.00 CY	37,700	9,425	0	0	0	0	47,125	7.25
E 09019902 02 Filter Fabric	19400.00 SY	54,320	13,580	0	0	0	0	67,900	3.50
E 09019902 03 Crushed stone	9000.00 TON	172,800	43,200	0	0	0	0	216,000	24.00
E 09019902 04 Obstruction R	5600.00 LF	44,800	11,200	0	0	0	0	56,000	10.00
	Sitework (Con	309,620	77,405	0	0	0	0	387,025	
<hr/>									
E 09019905 Metals									
E 09019905 01 Fence fchain	11200.00 LF	73,920	18,480	0	0	0	0	92,400	8.25
	Metals	73,920	18,480	0	0	0	0	92,400	
<hr/>									
E 09019906 Aesthetic Plant									
E 09019906 01 Aesthetic Tre	650.00 EA	7,800	1,950	0	0	0	0	9,750	15.00
E 09019906 02 Aesthetic Shr	1100.00 EA	9,680	2,420	0	0	0	0	12,100	11.00
	Aesthetic Pla	17,480	4,370	0	0	0	0	21,850	
	Associated Ge	401,020	100,255	0	0	0	0	501,275	
	Channels	4,607,900	1,151,975	0	0	0	0	5,759,875	
	Channels and	4,607,900	1,151,975	0	0	0	0	5,759,875	
<hr/>									
E 29 Project Cooperation Ag									
E 2900 Project Cooperation									
E 290000 Project Cooperatio									
<hr/>									
E 29000000 Project Cooperat									
	Project Coope	2,400	0	0	0	0	0	2,400	
	Project Coope	2,400	0	0	0	0	0	2,400	
	Project Coope	2,400	0	0	0	0	0	2,400	
	Project Coope	2,400	0	0	0	0	0	2,400	

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	QUANTITY UOM	DIRECT	DISTRIBU	OVERHEAD	HOME OFC	PROFIT	BOND	TOTAL COST	UNIT COST
<hr/>									
E 30 Engineering and Design									
E 3000 Engineering and Desi									
E 300000 Engineering and De									
E 30000000 Engineering and									
Engineering a		1,303,000	0	0	0	0	0	1,303,000	
Engineering a		1,303,000	0	0	0	0	0	1,303,000	
Engineering a		1,303,000	0	0	0	0	0	1,303,000	
Engineering a		1,303,000	0	0	0	0	0	1,303,000	
E 31 Construction Managemen									
E 3100 Construction Managem									
E 310000 Construction Manag									
E 31000000 Construction Man									
Construction		467,000	0	0	0	0	0	467,000	
Construction		467,000	0	0	0	0	0	467,000	
Construction		467,000	0	0	0	0	0	467,000	
Construction		467,000	0	0	0	0	0	467,000	
Ward Creek		6,514,694	1,154,938	0	0	0	0	7,669,632	
East Baton Ro	1.00 EA	74,856,253	13777696	0	0	0	0	88,633,948	88633948
Contingency								20,466,052	
<hr/>									
TOTAL INCL OWNER COSTS									
								109,100,000	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 3 Bayou Fountain							
A 01 Lands and Damages		0	1,000,000	0	19,000	1,019,000	
A 02 Relocations		0	0	0	3,000	3,000	
A 06 Fish & Wildlife Facilities		3,738	679	3,577	894	8,888	
A 09 Channels and Canals		578,188	638,375	65,036	162,933	1,444,532	
A 29 Project Cooperation Agreements		0	0	0	4,100	4,100	
A 30 Engineering and Design		0	0	0	851,000	851,000	
A 31 Construction Management		0	0	0	304,000	304,000	
Bayou Fountain	581,926	1,639,054		68,613	1,344,927	3,634,520	
B Jones Creek							
B 01 Lands and Damages		0	0	0	393,020	393,020	
B 06 Fish & Wildlife Facilities		17,408	3,164	16,648	4,144	41,363	
B 09 Channels and Canals		2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
B 14 Recreation Facilities		155,388	14,270	453,031	104,348	727,037	
B 29 Project Cooperation Agreements		0	0	0	1,700	1,700	
B 30 Engineering and Design		0	2,000,000	0	504,000	2,504,000	
B 31 Construction Management		0	2,000,000	0	649,000	2,649,000	
Jones Creek	2,236,434	5,519,034		3,954,958	22,968,175	34,678,601	
C Beaver Bayou							
C 01 Lands and Damages		0	1,000,000	0	512,590	1,512,590	
C 02 Relocations		0	1,000,000	0	682,240	1,682,240	
C 06 Fish & Wildlife Facilities		19,281	3,505	18,437	4,585	45,808	
C 09 Channels and Canals		2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
C 29 Project Cooperation Agreements		0	0	0	4,100	4,100	
C 30 Engineering and Design		0	1,000,000	0	250,000	1,250,000	
C 31 Construction Management		0	0	0	583,000	583,000	
Beaver Bayou	2,394,424	5,786,578		2,971,425	3,495,966	14,648,393	
D Blackwater Bayou							
D 01 Lands & Damages		0	1,000,000	0	476,000	1,476,000	
D 02 Relocations		0	1,000,000	0	675,680	1,675,680	
D 06 Fish & Wildlife Facilities		16,790	3,052	16,053	3,991	39,885	
D 09 Channels and Canals		2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	
D 29 Project Cooperation Agreements		0	0	0	4,100	4,100	
D 30 Engineering and Design		0	1,000,000	0	226,000	1,226,000	
D 31 Construction Management		0	0	0	708,000	708,000	
Blackwater Bayou	2,078,051	5,234,061		4,548,413	3,519,520	15,380,045	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Z Ward Creek							
E 01 Lands and Damages		0	0	0	122,540	122,540	
E 06 Fish & Wildlife Facilities		4,987	906	4,771	1,189	11,854	
E 09 Channels and Canals		664,825	652,870	461,483	2,828,723	4,607,900	
E 29 Project Cooperation Agreements		0	0	0	2,400	2,400	
E 30 Engineering and Design		0	1,000,000	0	303,000	1,303,000	
E 31 Construction Management		0	0	0	467,000	467,000	
Ward Creek							
		669,812	1,653,776	466,254	3,724,852	6,514,694	
East Baton Rouge Psh Feas. - NED	1.00 EA	7,960,647	19,832,503	12,009,663	35,053,440	74,856,253	74856253
Distribution						13,777,696	
TOTAL INCL INDIRECTS							
Contingency						88,633,948	
TOTAL INCL OWNER COSTS							
						20,466,052	
						109,100,000	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 3 Bayou Fountain							
A 01 Lands and Damages							
A 0100 Lands and Damages							
A 010000 Lands and Damages							
A 01000000 Lands and Damages							
Lands and Damages	0 1,000,000	0	19,000	1,019,000			
Lands and Damages	0 1,000,000	0	19,000	1,019,000			
Lands and Damages	0 1,000,000	0	19,000	1,019,000			
Lands and Damages	0 1,000,000	0	19,000	1,019,000			
02 Relocations							
A 0200 Relocations							
A 020000 Relocations							
A 02000000 Relocations							
Relocations	0 0	0	3,000	3,000			
Relocations	0 0	0	3,000	3,000			
Relocations	0 0	0	3,000	3,000			
Relocations	0 0	0	3,000	3,000			
A 06 Fish & Wildlife Facilities							
A 0603 Wildlife Facilities & Sanctuary							
A 060371 Fences							
A 06037102 Sitenwork							
- A 06037102 01 Fencing - barbed wire	1378.00 LF	2,727	496	2,411	374	6,008	4.36
Sitenwork		2,727	496	2,411	374	6,008	

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	QUANTITY UOM	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Fences	2,727	496	2,411	374		6,008	
A 060373 Habitat and Feeding Facilities							
A 06037302 Sitework							
A 06037302 01 Planting Trees							
	24.00 AC	1,010	184	1,166	520	2,880	120.00
Sitework		1,010	184	1,166	520	2,880	
Habitat and Feeding Facilit		1,010	184	1,166	520	2,880	
Wildlife Facilities & Sanct		3,738	679	3,577	894	8,888	
Fish & Wildlife Facilities		3,738	679	3,577	894	8,888	
A 09 Channels and Canals							
A 0901 Channels							
A 090101 Mob & Demob							
A 09010101 Mob & Demob							
	30,030	21,019		0	28,952	80,000	
Mob & Demob		30,030	21,019		0	28,952	80,000
Mob & Demob		30,030	21,019		0	28,952	80,000
A 090115 Mechanical Dredging							
A 09011502 Sitework							
A 09011502 01 Clearing and Snagging							
	8.00 MI	57,931	58,230		0	5,440	121,600
A 09011502 02 Clearing for Channel Dredgi	47.00 AC	113,448	102,427		0	5,965	221,840
A 09011502 03 Excavation	283000.00 CY	354,806	450,010		0	78,143	882,960
Sitework		526,185	610,667		0	89,548	1,226,400
Mechanical Dredging		526,185	610,667		0	89,548	1,226,400
A 090130 Bank Stabilization							
A 09013002 Sitework							

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		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 01	Filter Drain Fabric	6460.00 BY	2,731	1,214	34,535	281	38,760	6.00
A 09013002 02	sand (8" thick)	160.00 CY	320	320	0	320	960	6.00
A 09013002 03	riprap 16" - dry placement	890.00 TON	2,154	2,268	3,124	8,830	16,376	18.40
	Sitework		5,204	3,802	37,659	9,431	56,096	
A 09013003	Concrete							
A 09013003 01	1 FT U-frame Base Slab	67.00 CY	0	0	0	9,648	9,648	144.00
A 09013003 02	1 FT U-frame wall	100.00 CY	0	0	0	24,000	24,000	240.00
A 09013003 03	Channel Wall Pavement (4")	55.00 CY	1,486	360	3,719	155	5,720	104.00
A 09013003 04	Channel Wall Pavement (6")	43.00 CY	1,956	265	2,684	255	5,160	120.00
A 09013003 05	Channel Wall Pavement (8")	62.00 CY	2,659	381	3,814	586	7,440	120.00
	Concrete		6,102	1,006	10,216	34,644	51,968	
	Bank Stabilization		11,306	4,808	47,875	44,075	108,064	
A 090199	Associated General Items							
A 09019905	Metals							
A 09019905 01	Fence (chain link)	300.00 LF	300	37	1,620	24	1,980	6.60
	Metals		300	37	1,620	24	1,980	
A 09019906	Aesthetic Plantings							
A 09019906 01	Aesthetic Tree Planting	1050.00 EA	3,874	689	7,938	99	12,600	12.00
A 09019906 02	Aesthetic Shrub Planting	1760.00 EA	6,493	1,155	7,603	236	15,488	8.80
	Aesthetic Plantings		10,367	1,844	15,541	335	28,088	
	Associated General Items		10,667	1,881	17,161	359	30,068	
	Channels		578,188	638,375	65,036	162,933	1,444,532	
	Channels and Canals		578,188	638,375	65,036	162,933	1,444,532	
A 29	Project Cooperation Agreements							
A 2900	Project Cooperation Agreements							
290000	Project Cooperation Agreements							
A 29000000	Project Cooperation Agreements							

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Project Cooperation Agreeme		0	0	0	4,100	4,100	
Project Cooperation Agreeme		0	0	0	4,100	4,100	
Project Cooperation Agreeme		0	0	0	4,100	4,100	
Project Cooperation Agreeme		0	0	0	4,100	4,100	
A 30 Engineering and Design							
A 3000 Engineering and Design							
A 300000 Engineering and Design							
A 30000000 Engineering and Design							
Engineering and Design		0	0	0	851,000	851,000	
Engineering and Design		0	0	0	851,000	851,000	
Engineering and Design		0	0	0	851,000	851,000	
Engineering and Design		0	0	0	851,000	851,000	
A 31 Construction Management							
A 3100 Construction Management							
A 310000 Construction Management							
A 31000000 Construction Management							
Construction Management		0	0	0	304,000	304,000	
Construction Management		0	0	0	304,000	304,000	
Construction Management		0	0	0	304,000	304,000	
Construction Management		0	0	0	304,000	304,000	
Bayou Fountain	581,926	1,639,054		68,613	1,344,927	3,634,520	

B Jones Creek

B 01 Lands and Damages

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	QUANTITY UOM	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 0100 Lands and Damages							
B 010000 Lands and Damages							
B 01000000 Lands and Damages							
Lands and Damages	0	0	0	393,020		393,020	
Lands and Damages	0	0	0	393,020		393,020	
Lands and Damages	0	0	0	393,020		393,020	
Lands and Damages	0	0	0	393,020		393,020	
B 06 Fish & Wildlife Facilities							
B 0603 Wildlife Facilities & Sanctuary							
060371 Fences							
B 06037102 Sitework							
B 06037102 01 Fencing - barbed wire	6432.00 LF	12,728	2,313	11,253	1,749	28,043	4.36
Sitework		12,728	2,313	11,253	1,749	28,043	
Fences		12,728	2,313	11,253	1,749	28,043	
B 060373 Habitat and Feeding Facilities							
B 06037302 Sitework							
B 06037302 01 Planting Trees	111.00 AC	4,680	851	5,395	2,395	13,320	120.00
Sitework		4,680	851	5,395	2,395	13,320	
Habitat and Feeding Facilit		4,680	851	5,395	2,395	13,320	
Wildlife Facilities & Sanct		17,408	3,164	16,648	4,144	41,363	
Fish & Wildlife Facilities		17,408	3,164	16,648	4,144	41,363	
B 09 Channels and Canals							
B 0901 Channels							
B 090101 Mob & Demob							

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09010101 Mob & Demob							
B 09010101 01 Mob & Demob	157,814	94,049		0	124,137	376,000	
Mob & Demob	157,814	94,049		0	124,137	376,000	
Mob & Demob	157,814	94,049		0	124,137	376,000	
B 090115 Mechanical Dredging							
B 09011502 Site Work							
B 09011502 01 Clearing for Channel Dredgi	272.00 AC	328,275	296,385	0	49,901	674,560	2480.00
B 09011502 02 Degrading, hauling, shaping	162000.00 CY	597,445	554,756	0	143,799	1,296,000	8.00
B 09011502 03 Clearing and Snagging	3.00 MI	21,724	21,837	0	2,039	45,600	15200.00
Site Work	947,444	872,978		0	195,738	2,016,160	
Mechanical Dredging	947,444	872,978		0	195,738	2,016,160	
B 090130 Bank Stabilization							
B 09013002 Site Work							
B 09013002 01 sand (8" thick)	84000.00 CY	282,045	330,985	0	166,491	779,520	9.28
B 09013002 02 Filter Drain Fabric	418700.00 SY	176,991	78,656	2,238,370	18,183	2,512,200	6.00
B 09013002 03 Fuseplug Dams		23,256	33,228	6,480	23,436	86,400	
Site Work	482,291	442,869	2,244,850	208,110	3,378,120		
B 09013003 Concrete							
B 09013003 01 Cutoff Wall	6150.00 CY	287,344	67,624	290,645	92,386	738,000	120.00
B 09013003 02 Channel Wall Pavement (4")	82300.00 CY	0	0	0	8,559,200	8,559,200	104.00
B 09013003 03 Channel Wall Pavement (6")	61300.00 CY	0	0	0	7,356,000	7,356,000	120.00
B 09013003 04 Channel Wall Pavement (8")	11000.00 CY	0	0	0	1,320,000	1,320,000	120.00
B 09013003 05 drain ditch	33100.00 CY	0	0	0	3,442,400	3,442,400	104.00
Concrete	287,344	67,624	290,645	20,769,986	21,415,600		
Bank Stabilization	769,635	510,493	2,535,496	20,978,096	24,793,720		
B 090199 Associated General Items							
B 09019905 Metals							

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		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09019905 01	Fence (chain link)	171000.00 LF	171,036	20,930	923,215	13,418	1,128,600	6.60
	Metals		171,036	20,930	923,215	13,418	1,128,600	
B 09019906 Aesthetic Planting								
B 09019906 01	Aesthetic Tree Planting	1800.00 EA	6,641	1,181	13,608	170	21,600	12.00
B 09019906 02	Aesthetic Shrub Planting	3000.00 EA	11,068	1,968	12,960	404	26,400	8.80
	Aesthetic Planting		17,709	3,149	26,568	574	48,000	
	Associated General Items		188,745	24,079	949,783	13,992	1,176,600	
	Channels		2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
	Channels and Canals		2,063,638	1,501,600	3,485,279	21,311,963	28,362,480	
B 14 Recreation Facilities								
B 1400								
B 140022 Parking Lots and Service Roads:								
B 14002202 Site Work								
B 14002202 02	Bridge - 10' x 50'		1,122	529	0	17,149	18,800	
B 14002202 03	Bridge - 10' x 150'		1,122	529	0	83,149	84,800	
B 14002202 04	Signs & Markers	20.00 EA	427	21	1,944	168	2,560	128.00
B 14002202 05	Trees	4431.00 EA	16,348	2,090	33,498	1,236	53,172	12.00
B 14002202 06	Fence (6' Wooden)	55440.00 LF	136,369	11,102	417,588	2,646	567,706	10.24
	Site Work		155,388	14,270	453,031	104,348	727,037	
	Parking Lots and Service Ro		155,388	14,270	453,031	104,348	727,037	
			155,388	14,270	453,031	104,348	727,037	
	Recreation Facilities		155,388	14,270	453,031	104,348	727,037	
B 29 Project Cooperation Agreements								
B 2900 Project Cooperation Agreements								
B 290000 Project Cooperation Agreements								
B 29000000 Project Cooperation Agreements								

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Project Cooperation Agreeme		0	0	0	1,700	1,700	
Project Cooperation Agreeme		0	0	0	1,700	1,700	
Project Cooperation Agreeme		0	0	0	1,700	1,700	
Project Cooperation Agreeme		0	0	0	1,700	1,700	
B 30 Engineering and Design							
B 3000 Engineering and Design							
B 300000 Engineering and Design							
B 30000000 Engineering and Design							
Engineering and Design		0	2,000,000	0	504,000	2,504,000	
Engineering and Design		0	2,000,000	0	504,000	2,504,000	
Engineering and Design		0	2,000,000	0	504,000	2,504,000	
Engineering and Design		0	2,000,000	0	504,000	2,504,000	
B 31 Construction Management							
B 3100 Construction Management							
B 310000 Construction Management							
B 31000000 Construction Management							
Construction Management		0	2,000,000	0	649,000	2,649,000	
Construction Management		0	2,000,000	0	649,000	2,649,000	
Construction Management		0	2,000,000	0	649,000	2,649,000	
Construction Management		0	2,000,000	0	649,000	2,649,000	
Jones Creek	2,236,434	5,519,034	3,954,958	22,968,175	34,678,601		
C Beaver Bayou							
C 01 Lands and Damages							

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 0100 Lands and Damages							
C 010000 Lands and Damages							
C 01000000 Lands and Damages							
Lands and Damages	0	1,000,000	0	512,590	0	1,512,590	
Lands and Damages	0	1,000,000	0	512,590	0	1,512,590	
Lands and Damages	0	1,000,000	0	512,590	0	1,512,590	
Lands and Damages	0	1,000,000	0	512,590	0	1,512,590	
C 02 Relocations							
C 0200 Relocations							
Relocations	0	1,000,000	0	682,240	0	1,682,240	
Relocations	0	1,000,000	0	682,240	0	1,682,240	
Relocations	0	1,000,000	0	682,240	0	1,682,240	
Relocations	0	1,000,000	0	682,240	0	1,682,240	
C 06 Fish & Wildlife Facilities							
C 0603 Wildlife Facilities & Sanctuary							
C 060371 Fences							
C 06037102 Sitenwork							
C 06037102 01 Fencing - barbed wire	7121.00 LF	14,104	2,564	12,459	1,921	31,048	4.36
Sitenwork		14,104	2,564	12,459	1,921	31,048	
Fences		14,104	2,564	12,459	1,921	31,048	
C 060373 Habitat and Feeding Facilities							

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		QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 06037302 Sitework								
C 06037302 01 Planting Trees		123.00 AC	5,177	941	5,978	2,664	14,760	120.00
Sitework			5,177	941	5,978	2,664	14,760	
Habitat and Feeding Facilit			5,177	941	5,978	2,664	14,760	
Wildlife Facilities & Sanct			19,281	3,505	18,437	4,585	45,808	
Fish & Wildlife Facilities			19,281	3,505	18,437	4,585	45,808	
C 09 Channels and Canals								
C 0901 Channels								
C 090101 Mob & Demob								
C 09010101 Mob & Demob								
C 09010101 01 Mob & Demob			70,665	50,755	0	54,580	176,000	
Mob & Demob			70,665	50,755	0	54,580	176,000	
Mob & Demob			70,665	50,755	0	54,580	176,000	
C 090115 Mechanical Dredging								
C 09011502 Sitework								
C 09011502 01 Clearing for Channel Dredgi	220.00 AC	531,033	479,446	0	27,921	1,038,400	4720.00	
C 09011502 02 Excavation	695000.00 CY	1,151,402	1,640,625	0	321,572	3,113,600	4.48	
Sitework		1,682,435	2,120,071	0	349,493	4,152,000		
Mechanical Dredging		1,682,435	2,120,071	0	349,493	4,152,000		
C 090130 Bank Stabilization								
C 09013002 Site Work								
C 09013002 01 Geotextile Mat Turf Reinfor	545100.00 SY	147,930	28,672	2,413,703	26,175	2,616,480	4.80	
C 09013002 02 R-90 Stone	130200.00 TN	236,872	276,022	457,002	957,065	1,926,960	14.80	
C 09013002 03 Hydromulch	322400.00 SY	11,943	7,164	41,783	3,589	64,480	0.20	
C 09013002 04 Excavation for stone	115700.00 CY	191,900	273,438	0	52,998	518,336		
C 09013002 05 Fuseplug Dams		16,796	23,998	6,480	15,126	62,400		
Site Work		605,441	609,294	2,918,968	1,054,953	5,188,656		

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013003 Concrete							
Bank Stabilization	605,441	609,294	2,918,968	1,054,953		5,188,656	
C 090199 Associated General Items							
C 09019906 Aesthetic Plantings							
C 09019906 01 Aesthetic Tree Planting	4500.00 EA	16,602	2,953	34,020	425	54,000	12.00
Aesthetic Plantings		16,602	2,953	34,020	425	54,000	
Associated General Items		16,602	2,953	34,020	425	54,000	
Channels		2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
Channels and Canals		2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	
C 29 Project Cooperation Agreements							
C 2900 Project Cooperation Agreements							
C 29000 Project Cooperation Agreements							
C 29000000 Project Cooperation Agreements							
Project Cooperation Agreements		0	0	0	4,100	4,100	
Project Cooperation Agreements		0	0	0	4,100	4,100	
Project Cooperation Agreements		0	0	0	4,100	4,100	
Project Cooperation Agreements		0	0	0	4,100	4,100	
C 30 Engineering and Design							
C 3000 Engineering and Design							
C 30000000 Engineering and Design							
C 30000000 Engineering and Design							
Engineering and Design		0	1,000,000	0	250,000	1,250,000	
Engineering and Design		0	1,000,000	0	250,000	1,250,000	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Engineering and Design		0	1,000,000	0	250,000	1,250,000	
Engineering and Design		0	1,000,000	0	250,000	1,250,000	
C 31 Construction Management							
C 3100 Construction Management							
C 310000 Construction Management							
C 31000000 Construction Management							
Construction Management		0	0	0	583,000	583,000	
Construction Management		0	0	0	583,000	583,000	
Construction Management		0	0	0	583,000	583,000	
Construction Management		0	0	0	583,000	583,000	
Beaver Bayou		2,394,424	5,786,578	2,971,425	3,495,966	14,648,393	
D Blackwater Bayou							
D 01 Lands & Damages							
D 0100 Lands & Damages							
D 010000 Lands & Damages							
D 01000000 Lands & Damages							
Lands & Damages		0	1,000,000	0	476,000	1,476,000	
Lands & Damages		0	1,000,000	0	476,000	1,476,000	
Lands & Damages		0	1,000,000	0	476,000	1,476,000	
Lands & Damages		0	1,000,000	0	476,000	1,476,000	

D 02 Relocations

D 0200 Relocations

D 020000 Relocations

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D 02000000 Relocations							
Relocations		0	1,000,000	0	675,680	1,675,680	
Relocations		0	1,000,000	0	675,680	1,675,680	
Relocations		0	1,000,000	0	675,680	1,675,680	
Relocations		0	1,000,000	0	675,680	1,675,680	
D 06 Fish & Wildlife Facilities							
D 0603 Wildlife Facilities & Sanctuary							
D 06Q371 Fences							
D 06037102 Sitework							
06037102 01 Fencing - barbed wire	6203.00 LF	12,286	2,233	10,853	1,673	27,045	4.36
Sitework		12,286	2,233	10,853	1,673	27,045	
Fences		12,286	2,233	10,853	1,673	27,045	
D 060373 Habitat and Feeding Facilities							
D 06037302 Sitework							
06037302 01 Planting Trees	107.00 AC	4,504	819	5,200	2,318	12,840	120.00
Sitework		4,504	819	5,200	2,318	12,840	
Habitat and Feeding Facilit		4,504	819	5,200	2,318	12,840	
Wildlife Facilities & Sanct		16,790	3,052	16,053	3,991	39,885	
Fish & Wildlife Facilities		16,790	3,052	16,053	3,991	39,885	
D 09 Channels and Canals							
D 0901 Channels							
D 090101 Mob & Demob							
D 09010101 Mob & Demob							
09010101 01 Mob & Demob		45,115	35,312	0	39,573	120,000	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
Mob & Demob	45,115	35,312	0	39,573	120,000		
	45,115	35,312	0	39,573	120,000		

D 090115 Mechanical Dredging

D 09011502 Site Work

D 09011502 01	Clearing for Channel Dredging	164.00 AC	395,861	357,405	0	20,814	774,080	4720.00
D 09011502 02	Excavation	517600.00 CY	811,554	1,098,549	0	201,704	2,111,808	4.08
	Site Work		1,207,415	1,455,955	0	222,518	2,885,888	
	Mechanical Dredging		1,207,415	1,455,955	0	222,518	2,885,888	

P 090130 Bulk Stabilization

P 09013002 Site Work

D 09013002 01	Geotextile Mat Turf Reinfor	887000.00	SY	240,715	46,656	3,927,636	42,592	4,257,600	4.80
D 09013002 02	R-90 Stone	137800.00	TN	282,852	345,553	483,678	1,037,598	2,149,680	15.60
D 09013002 03	Hydromulch	551500.00	SY	20,430	12,256	71,474	6,140	110,300	0.20
D 09013002 04	Excavation for stone	141400.00	CY	221,741	300,156	0	55,016	576,912	4.08
D 09013002 05	Fuseplug Dams			21,964	31,382	6,480	21,774	81,600	
<hr/>				<hr/>					
Site Work				787,702	736,002	4,489,268	1,163,119	7,176,092	
<hr/>				<hr/>					
Bank Stabilization				787,702	736,002	4,489,268	1,163,119	7,176,092	

D 090199 Associated General Items

D 09019906 Aesthetic Plantings

D 09019906 01 Aesthetic Tree Planting	5700.00 EA	21,029	3,740	43,092	539	68,400	12.00
Aesthetic Plantings		21,029	3,740	43,092	539	68,400	
Associated General Items		21,029	3,740	43,092	539	68,400	
Channels		2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	
Channels and Canals		2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	

D 29 Project Cooperation Agreements

D 2900 Project Cooperation Agreements

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	QUANTITY	UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>								
D 2900000 Project Cooperation Agreements								
D 29000000 Project Cooperation Agreements								
Project Cooperation Agreeme	0		0		0	4,100	4,100	
Project Cooperation Agreeme	0		0		0	4,100	4,100	
Project Cooperation Agreeme	0		0		0	4,100	4,100	
Project Cooperation Agreeme	0		0		0	4,100	4,100	
D 30 Engineering and Design								
D 3000 Engineering and Design								
D 3000000 Engineering and Design								
D 30000000 Engineering and Design								
Engineering and Design	0		1,000,000		0	226,000	1,226,000	
Engineering and Design	0		1,000,000		0	226,000	1,226,000	
Engineering and Design	0		1,000,000		0	226,000	1,226,000	
Engineering and Design	0		1,000,000		0	226,000	1,226,000	
D 31 Construction Management								
D 3100 Construction Management								
D 3100000 Construction Management								
D 31000000 Construction Management								
Construction Management	0		0		0	708,000	708,000	
Construction Management	0		0		0	708,000	708,000	
Construction Management	0		0		0	708,000	708,000	
Construction Management	0		0		0	708,000	708,000	
Blackwater Bayou	2,078,051		5,234,061		4,548,413	3,519,520	15,380,045	

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	QUANTITY UOM	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E Ward Creek							
E 01 Lands and Damages							
E 0100 Lands and Damages							
E 010000 Lands and Damages							
E 01000000 Lands and Damages							
Lands and Damages	0	0	0	122,540		122,540	
Lands and Damages	0	0	0	122,540		122,540	
Lands and Damages	0	0	0	122,540		122,540	
Lands and Damages	0	0	0	122,540		122,540	
E 06 Fish & Wildlife Facilities							
E 0603 Wildlife Facilities & Sanctuary							
E 060371 Fences							
E 06037102 Sitenwork							
E 06037102 01 Fencing - barbed wire	1838.00 LF	3,640	662	3,216	496	8,014	4.36
Sitenwork		3,640	662	3,216	496	8,014	
Fences		3,640	662	3,216	496	8,014	
E 060373 Habitat and Feeding Facilities							
E 06037302 Sitenwork							
E 06037302 01 Planting Trees	32.00 AC	1,347	245	1,555	693	3,840	120.00
Sitenwork		1,347	245	1,555	693	3,840	
Habitat and Feeding Facilit		1,347	245	1,555	693	3,840	
Wildlife Facilities & Sanct		4,987	906	4,771	1,189	11,854	
Fish & Wildlife Facilities		4,987	906	4,771	1,189	11,854	
E 09 Channels and Canals							

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 0901 Channels							
E 090101 Mob & Demob							
E 09010101 Mob & Demob							
E 09010101 01 Mob & Demob	44,194	24,255	0	51,551	120,000		
Mob & Demob	44,194	24,255	0	51,551	120,000		
Mob & Demob	44,194	24,255	0	51,551	120,000		
E 090115 Mechanical Dredging							
E 09011502 Sitenwork							
E 09011502 01 Clearing for Channel Dredgi	20.00 AC	48,276	43,586	0	2,538	94,400	4720.00
E 09011502 02 Excavation	143000.00 CY	328,373	362,083	0	81,745	772,200	5.40
E 09011502 03 Clearing and Snagging	13.00 MI	94,138	94,623	0	8,839	197,600	15200.00
Sitenwork	470,786	500,292	0	93,122	1,064,200		
Mechanical Dredging	470,786	500,292	0	93,122	1,064,200		
E 090130 Bank Stabilization							
E 09013002 Sitenwork							
E 09013002 01 sand (8" thick)	13200.00 CY	37,808	43,407	0	29,665	110,880	8.40
E 09013002 02 Filter Drain Fabric	59300.00 SY	25,092	11,151	317,018	2,539	355,800	6.00
E 09013002 03 Fuseplug Dams		6,202	8,861	4,320	12,617	32,000	
Sitenwork	69,102	63,419	321,338	44,821	498,680		
E 09013003 Concrete							
E 09013003 01 Cutoff wall	400.00 CY	0	0	0	48,000	48,000	120.00
E 09013003 02 Channel Wall Pavement (4")	8800.00 CY	0	0	0	915,200	915,200	104.00
E 09013003 03 Channel Wall Pavement (6")	6600.00 CY	0	0	0	792,000	792,000	120.00
E 09013003 04 Channel Wall Pavement (8")	4500.00 CY	0	0	0	540,000	540,000	120.00
E 09013003 05 drain ditch	2200.00 CY	0	0	0	228,800	228,800	104.00
Concrete	0	0	0	2,524,000	2,524,000		
Bank Stabilization	69,102	63,419	321,338	2,568,821	3,022,680		

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 090199 Associated General Items							
E 09019902 Sitework (Construction Access)							
E 09019902 01 excavation	6500.00 CY	16,328	17,586	0	3,785	37,700	5.80
E 09019902 02 Filter Fabric	19400.00 SY	8,226	3,656	36,666	5,772	54,320	2.80
E 09019902 03 Crushed stone	9000.00 TON	18,940	21,532	33,345	98,983	172,800	19.20
E 09019902 04 Obstruction Removal	5600.00 LF	19,591	19,610	0	5,600	44,800	8.00
Sitework (Construction Acce		63,084	62,385	70,011	114,140	309,620	
E 09019905 Metals							
E 09019905 01 Fence (chain link)	11200.00 LF	11,202	1,371	60,468	879	73,920	6.60
Metals		11,202	1,371	60,468	879	73,920	
E 09019906 Aesthetic Plantings							
E 09019906 01 Aesthetic Tree Planting	650.00 EA	2,398	427	4,914	61	7,800	12.00
E 09019906 02 Aesthetic Shrub Planting	1100.00 EA	4,058	722	4,752	148	9,680	8.80
Aesthetic Plantings		6,456	1,148	9,666	209	17,480	
Associated General Items		80,743	64,904	140,145	115,228	401,020	
Channels		664,825	652,870	461,483	2,828,723	4,607,900	
Channels and Canals		664,825	652,870	461,483	2,828,723	4,607,900	
E 29 Project Cooperation Agreements							
E 2900 Project Cooperation Agreements							
E 290000 Project Cooperation Agreements							
E 29000000 Project Cooperation Agreements							
Project Cooperation Agreeme		0	0	0	2,400	2,400	
Project Cooperation Agreeme		0	0	0	2,400	2,400	
Project Cooperation Agreeme		0	0	0	2,400	2,400	
Project Cooperation Agreeme		0	0	0	2,400	2,400	

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	QUANTITY UOM	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 30 Engineering and Design							
E 3000 Engineering and Design							
E 300000 Engineering and Design							
E 30000000 Engineering and Design							
Engineering and Design	0	1,000,000	0	303,000	0	1,303,000	
Engineering and Design	0	1,000,000	0	303,000	0	1,303,000	
Engineering and Design	0	1,000,000	0	303,000	0	1,303,000	
Engineering and Design	0	1,000,000	0	303,000	0	1,303,000	
E 31 Construction Management							
E 3100 Construction Management							
E 310000 Construction Management							
E 31000000 Construction Management							
Construction Management	0	0	0	467,000	0	467,000	
Construction Management	0	0	0	467,000	0	467,000	
Construction Management	0	0	0	467,000	0	467,000	
Construction Management	0	0	0	467,000	0	467,000	
Ward Creek	669,812	1,653,776	466,254	3,724,852	0	6,514,694	
East Baton Rouge Psh Feas. Distribution	1.00 EA	7,960,647	19,832,503	12,009,663	35,053,440	74,856,253	74856253
13,777,696							
TOTAL INCL INDIRECTS Contingency						88,633,948	
20,466,052							
TOTAL INCL OWNER COSTS						109,100,000	

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East Baton Rouge Parish Feasibility Study
A. Bayou Fountain

DETAILED ESTIMATE DETAIL PAGE 1

A CT. Lands and Damages		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A. Bayou Fountain											
A 01. Lands and Damages											
USR	Lands and Damage				0.00	1000000.00		0.00	19000.00	1019000.00	
		1.00 LS			0.00	0	1,000,000	0	19,000	1,019,000	1019000
	Lands and Damage					0	1,000,000	0	19,000	1,019,000	

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A. Bayou Fountain

DETAIL PAGE 5

DETAILED ESTIMATE

A 02. Relocations	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
A 02. Relocations										
USR	Relocations				0.00	0.00	0.00	3000.00	3000.00	
		1.00 LS		0.00	0	0	0	3,000	3,000	3000.00
	<hr/>			<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	Relocations				0	0	0	3,000	3,000	

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 DETAILED ESTIMATE East Baton Rouge Parish Feasibility Study
 A. Bayou Fountain

DETAIL PAGE 3

A 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
A 06. Fish & Wildlife Facilities										
A 06037102 01. Fencing - barbed wire										
This item will include cost to do the following work:										
Fencing the selected mitigation site.										
The fence will consist of poles spaced appropriately with 4 strands of barb-wire.										
Three Brec sites have been selected with one Joor site also.										
The quantities shown for each watershed represent a percentage of the total number of sites.										
1st site 1378 lf										
USR PM Fencing				1.98	0.36	0.00	0.00	0.00	2.34	
	1378.00 LF	TRACTOR1	17.01	2,727	496	0	0	3,223	2.34	
USR PM Fence post				0.00	0.00	1.62	0.00	0.00	1.62	
	1378.00 LF		0.00	0	0	2,232	0	2,232	1.62	
USR PM Barbed wire - 4				0.00	0.00	0.03	0.00	0.00	0.03	
	5512.00 LF		0.00	0	0	179	0	179	0.03	
USR PM safety & misc				0.00	0.00	0.00	374.00	374.00	374.00	
	1.00 LS		0.00	0	0	0	374	374	374.00	
<hr/>										
Fencing - barbed	1378.00	LF		2,727	496	2,411	374	6,008	4.36	

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DETAIL PAGE

A 06. Fish & Wildlife Fac	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
---------------------------	----------	-----	---------	--------	-------	----------	----------	----------	------------	-----------

A 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 24 acre

USR PM planting trees				42.09	7.65	0.00	0.00	49.74	
	24.00 AC	TRACTOR1	0.80	1,010	184	0	0	1,194	49.74
USR PM seedlings (300				0.00	0.00	0.16	0.00	0.16	
	7200.00 EA		0.00	0	0	1,166	0	1,166	0.16
USR PM safety & misc				0.00	0.00	0.00	159.86	159.86	
	1.00 LS		0.00	0	0	0	160	160	15
USR PM Land preparation				0.00	0.00	0.00	15.00	15.00	
	24.00 AC		0.00	0	0	0	360	360	15.00
Planting Trees	24.00 AC			1,010	184	1,166	520	2,880	120.00
Fish & Wildlife				3,738	679	3,577	894	8,888	

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A. Bayou Fountain

DETAIL PAGE 5

A 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

A 09. Channels and Canals

A 09010101 01. Mob & Demob

Allow 1 day for mob and 1 day for demob. There is only one contract.

USR PM DOZER D-6 W/BLAD			0.00	13.85	0.00	0.00	13.85
	60.00 HR	DOZB	1.00	0	831	0	831
USR PM AIR COMPRESSOR			0.00	2.92	0.00	0.00	2.92
	20.00 HR	AIRF	1.00	0	58	0	58
USR PM BACKHOE CAT 225B			0.00	20.95	0.00	0.00	20.95
	20.00 HR	BKHB	1.00	0	419	0	419
USR PM BACKHOE CAT 235			0.00	39.52	0.00	0.00	39.52
	20.00 HR	BKHC	1.00	0	790	0	790
USR PM chipping machine			0.00	15.00	0.00	0.00	15.00
	20.00 HR	CHIPPER	1.00	0	300	0	300
USR PM chainsaw, Homeli			0.00	0.17	0.00	0.00	0.17
	40.00 HR	CHNSAW	1.00	0	7	0	7
USR PM CHERRYPICKER GRO			0.00	13.53	0.00	0.00	13.53
	20.00 HR	CHYA	1.00	0	271	0	271
USR PM sealant hot mixe			0.00	3.50	0.00	0.00	3.50
	20.00 HR	CMLT	1.00	0	70	0	70
USR PM CONCRETE PAVER 2			0.00	27.97	0.00	0.00	27.97
	20.00 HR	CNPV	1.00	0	559	0	559
USR PM CRANE AMER 5299-			0.00	27.55	0.00	0.00	27.55
	40.00 HR	CRNA	1.00	0	1,102	0	1,102
USR PM DOZER D-4 W/BLAD			0.00	7.56	0.00	0.00	7.56
	20.00 HR	DOZA	1.00	0	151	0	151
USR PM F E LOADER CAT 9			0.00	13.73	0.00	0.00	13.73
	20.00 HR	FELA	1.00	0	275	0	275
USR PM MOTOR GRADER CAT			0.00	13.17	0.00	0.00	13.17
	20.00 HR	MOTG	1.00	0	263	0	263
USR PM WATER PUMP 3" HO			0.00	0.15	0.00	0.00	0.15
	20.00 HR	PMPC	1.00	0	3	0	3
USR PM trencher, chain,			0.00	1.74	-0.00	0.00	1.74
	20.00 HR	T30DW002	1.00	0	35	0	35
USR PM FARM TRACTOR W/D			0.00	2.24	0.00	0.00	2.24
	20.00 HR	TRAC	1.00	0	45	0	45

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A. Bayou Fountain

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DETAILED ESTIMATE

DETALL PAGE

A. Bayou Fountain

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER TRUCK 2000					0.00	5.97	0.00	0.00	5.97	
	20.00	HR	TRKA	1.00	0	119	0	0	119	5.97
USR PM trailer truck, 2					0.00	28.00	0.00	0.00	28.00	
	420.00	HR	TRKH	1.00	0	11,760	0	0	11,760	28.00
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	180.00	HR	TRKI	1.00	0	3,960	0	0	3,960	22.00
USR PM CARPENTER					26.04	0.00	0.00	0.00	26.04	
	40.00	HR	CARM	1.00	1,042	0	0	0	1,042	26.04
USR PM CEMENT MASON					23.26	0.00	0.00	0.00	23.26	
	80.00	HR	CMNM	1.00	1,861	0	0	0	1,861	23.26
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	100.00	HR	FOREMAN3	1.00	2,650	0	0	0	2,650	26.50
USR PM IRONWORKER					26.18	0.00	0.00	0.00	26.18	
	20.00	HR	IRNM	1.00	524	0	0	0	524	26.18
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	160.00	HR	LABM	1.00	2,667	0	0	0	2,667	16.67
USR PM PEO-ALL EXCPT DR					25.84	0.00	0.00	0.00	25.84	
	340.00	HR	PEOM	1.00	8,785	0	0	0	8,785	25.84
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	600.00	HR	TRKM	1.00	10,500	0	0	0	10,500	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	80.00	HR	LABM	1.00	1,334	0	0	0	1,334	16.67
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	40.00	HR	LABM	1.00	667	0	0	0	667	16.67
USR PM trailering					0.00	0.00	0.00	1500.00	1500.00	
	14.00	EA		0.00	0	0	0	21,000	21,000	1500.00
USR PM safety & misc					0.00	0.00	0.00	7951.67	7951.67	
	1.00	LS		0.00	0	0	0	7,952	7,952	7951.67

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09011502 01. Clearing and Snagging

This item will include all cost to clear and snag the:
 1. channel right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

Some areas will have to be cleared so that access will be allowed for the excavator.

USR PM Clearing w/ D-6,				1206.89	906.70	0.00	-0.06	2113.53	
	8.00 AC	CLEARING1	0.10	9,655	7,254	0	0	16,908	2113.53
USR PM Snagging w/ 235,				6034.47	6372.00	0.00	0.00	12406.47	
	8.00 MI	SNAGGING1	0.02	48,276	50,976	0	0	99,252	12406.47
USR PM safety & misc				0.00	0.00	0.00	5440.02	5440.02	
	1.00 LS		0.00	0	0	0	5,440	5,440	5440.02
Clearing and Sna	8.00 MI			57,931	58,230	0	5,440	121,600	15200.00

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DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09011502 02. Clearing for Channel Dredging										
This item will include all cost to clear and grub the:										
1. channel right of way										
2. access right of way										
Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.										
USR PM Clearing w/D-6,F				1373.60	921.40	0.00	0.00	2295.00		
47.00 AC	CLEARING2		0.10	64,559	43,306	0	0	107,865	2295.00	
USR PM Grubbing w/ Cat				1040.19	1257.90	0.00	0.00	2298.09		
47.00 AC	GRUBBING1		0.10	48,889	59,121	0	0	108,010	2298.09	
USR PM safety & misc				0.00	0.00	0.00	5964.96	5964.96		
1.00 LS			0.00	0	0	0	5,965	5,965	5,965	5964.96
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Clearing for Cha	47.00 AC			113,448	102,427	0	5,965	221,840	4720.00	

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09011502 03. Excavation										
The material will be hauled to Miss. River batture areas no more than 2 miles from the intersection of Gardere Ln and River Road. A dozer will be used full time at the excavation site.										
Center of gravity for hauling purposes is 2 miles north of Gardere Ln.										
USR PM safety & misc				0.00	0.00	0.00	12738.37	0.00	12738.37	12738.37
	1.00	LS		0.00	0	0	0	12,738	12,738	12738.37
USR PM all other operat				0.00	8615.00	0.00	0.00	0.00	8615.00	8615.00
	1.00	LS		0.00	0	8,615	0	0	8,615	8615.00
USR PM small tools				0.00	10644.00	0.00	0.00	0.00	10644.00	10644.00
	1.00	LS		0.00	0	10,644	0	0	10,644	10644.00
USR PM haul roads (10%)				0.00	0.00	0.00	65404.80	0.00	65404.80	65404.80
	1.00	LS		0.00	0	0	0	65,405	65,405	65404.80
USR PM BACKHOE CAT 235				0.00	68.78	0.00	0.00	0.00	68.78	68.78
	1155.00	HR BKHC		1.00	0	79,441	0	0	79,441	68.78
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	0.00	32.01	32.01
	1155.00	HR DOZB		1.00	0	36,972	0	0	36,972	32.01
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	0.00	28.00	28.00
	10395	HR TRKH		1.00	0	291,060	0	0	291,060	28.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	0.00	16.02	16.02
	577.50	HR TRKA		1.00	0	9,252	0	0	9,252	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	0.00	24.29	24.29
	577.50	HR MOTG		1.00	0	14,027	0	0	14,027	24.29
USR PM OILER				16.50	0.00	0.00	0.00	0.00	16.50	16.50
	1155.00	HR OILM		1.00	19,060	0	0	0	19,060	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	0.00	17.50	17.50
	10395	HR TRKM		1.00	181,913	0	0	0	181,913	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	0.00	25.84	25.84
	1155.00	HR PEOM		1.00	29,845	0	0	0	29,845	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	0.00	25.84	25.84
	1155.00	HR PEOM		1.00	29,845	0	0	0	29,845	25.84
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	25.84
	577.50	HR PEOM		1.00	14,922	0	0	0	14,922	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	17.50
	577.50	HR TRKM		1.00	10,106	0	0	0	10,106	17.50

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	2310.00	HR	LABM	1.00	38,508	0	0	0	38,508	16.67
USR PM foreman 3	\$26.5				26.50	0.00	0.00	0.00	26.50	
	1155.00	HR	FOREMAN3	1.00	30,608	0	0	0	30,608	26.50
Excavation	283000	CY			354,806	450,010	0	78,143	882,960	3.12

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 01. Filter Drain Fabric										
This item will include cost to do the following work:										
Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.										
USR PM cherry picker, p					0.42	0.19	0.00	0.00	0.61	
6460.00 SY	CHYPK1			140.00	2,731	1,214	0	0	3,944	0.61
USR PM drainage composi					0.00	0.00	5.35	0.00	5.35	
6460.00 SY				0.00	0	0	34,535	0	34,535	5.35
USR PM safety & misc					0.00	0.00	0.00	280.60	280.60	
1.00 LS				0.00	0	0	0	281	281	280.60
Filter Drain Fab	6460.00	SY			2,731	1,214	34,535	281	38,760	6.00

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
A 09013002 02. sand (8" thick)										
This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.										
ASSUMPTIONS:										
1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.										
USR PM safety & misc				0.00	0.00	0.00	48.81	48.81	48.81	48.81
	1.00	LS		0.00	0	0	49	49	49	48.81
USR PM all other operat				0.00	6.00	0.00	0.00	6.00	6.00	6.00
	1.00	LS		0.00	0	6	0	0	6	6.00
USR PM small tools				0.00	10.00	0.00	0.00	10.00	10.00	10.00
	1.00	LS		0.00	0	10	0	0	10	10.00
USR PM sand material				0.00	0.00	0.00	1.25	1.25	1.25	1.25
	160.00	CY		0.00	0	0	200	200	200	1.25
USR PM haul roads (10%)				0.00	0.00	0.00	71.00	71.00	71.00	71.00
	1.00	LS		0.00	0	0	71	71	71	71.00
USR PM BACKHOE CAT 225B				0.00	36.92	0.00	0.00	36.92	36.92	36.92
	1.00	HR BKHB		1.00	0	37	0	0	37	36.92
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01	32.01	32.01
	1.50	HR DOZB		1.00	0	48	0	0	48	32.01
USR PM DUMP TRUCK 12 C				0.00	22.11	0.00	0.00	22.11	22.11	22.11
	9.00	HR TRKE		1.00	0	199	0	0	199	22.11
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02	16.02	16.02
	0.50	HR TRKA		1.00	0	8	0	0	8	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29	24.29	24.29
	0.50	HR MOTG		1.00	0	12	0	0	12	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50	16.50	16.50
	1.00	HR OILM		1.00	17	0	0	0	17	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	17.50	..
	9.00	HR TRKM		1.00	158	0	0	0	158	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84	25.84	25.84
	1.00	HR PEOM		1.00	26	0	0	0	26	25.84

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	1.50 HR	PEOM		1.00	39	0	0	0	39	25.84
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	0.50 HR	PEOM		1.00	13	0	0	0	13	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	0.50 HR	TRKM		1.00	9	0	0	0	9	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	1.00 HR	LABM		1.00	17	0	0	0	17	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	1.00 HR	LABM		1.00	17	0	0	0	17	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1.00 HR	FOREMAN3		1.00	27	0	0	0	27	26.50
sand (8" thick)	160.00	CY			320	320	0	320	960	6.00

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DETAIL PAGE

A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013002 03. riprap 16" - dry placement										
The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the downstream end and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the areas as dry as possible. This item will include cost to furnish and place the stone only. The rock will be barge delivered in the vicinity of the Mississippi River and Gardner Rd. A dragline will offload the rock into awaiting trucks. The trucks will haul the material to the jobsite where a dragline will put it in place.										
USR PM safety & misc				0.00	0.00	0.00	2600.36	2600.36		
	1.00	LS		0.00	0	0	2,600	2,600	2600.36	
USR PM all other operat				0.00	43.00	0.00	0.00	43.00		
	1.00	LS		0.00	0	43	0	0	43	43.00
USR PM small tools				0.00	65.00	0.00	0.00	65.00		
	1.00	LS		0.00	0	65	0	0	65	65.00
USR PM stone				0.00	0.00	3.51	0.00	3.51		
	890.00	TON		0.00	0	3,124	0	3,124	3.51	3.51
USR PM stone - towing				0.00	0.00	0.00	7.00	7.00		
	890.00	TON		0.00	0	0	6,230	6,230	7.00	
USR PM CRANE AMER 5299-				0.00	36.01	0.00	0.00	36.01		
	20.00	HR	CRNA	1.00	0	720	0	0	720	36.01
USR PM rock box/hopper				0.00	4.00	0.00	0.00	4.00		
	10.00	HR	BOX1	1.00	0	40	0	0	40	4.00
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00		
	50.00	HR	TRKH	1.00	0	1,400	0	0	1,400	28.00
USR PM OILER				16.50	0.00	0.00	0.00	16.50		
	20.00	HR	OILM	1.00	330	0	0	330	16.50	
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50		
	50.00	HR	TRKM	1.00	875	0	0	875	17.50	
USR PM PEO				25.84	0.00	0.00	0.00	25.84		
	20.00	HR	PEOM	1.00	517	0	0	517	25.84	
USR PM LABORER				16.67	0.00	0.00	0.00	16.67		
	10.00	HR	LABM	1.00	167	0	0	167	16	
USR PM foreman 3	\$26.5			26.50	0.00	0.00	0.00	26.50		
	10.00	HR	FOREMAN3	1.00	265	0	0	265	26.50	

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A 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

riprap 16" - dry 890.00 TON	2,154	2,268	3,124	8,830	16,376	18.40
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A 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

A 09013003 01. 1 FT U-frame Base Slab

This item is for all equipment, labor, and materials to construct concrete base slab for the concrete u-frame protection around the sewer line.

Reference: typical NOD T-wall base slab.

USR PM u-frame base sla		0.00	0.00	0.00	144.00	144.00
	67.00 CY	0.00	0	0	9,648	9,648
		-----	-----	-----	-----	-----
1 FT U-frame Bas	67.00 CY		0	0	9,648	9,648
						144.00

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 02. 1 FT U-frame wall

This item is for all labor, equipment, and materials required to pour 1' concrete walls for the concrete u-frame protection around the sewer line.

Reference: typical NOD concrete I-walls

USR PM 1' u-frame concr		0.00	0.00	0.00	240.00	240.00	
100.00 CY	0.00	0	0	0	24,000	24,000	240.00
<hr/>				<hr/>			<hr/>
1 FT U-frame wal	100.00 CY	0	0	0	24,000	24,000	240.00

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A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09013003 03. Channel Wall Pavement (4")

This item is for all equipment, labor, and materials required to place concrete channel wall pavement.

A motor grader will prepare the levee surface (fine grade) prior to concrete placement. A tractor and water tank will be used to wet the soil surface before the concrete is placed. A dozer will assist in positioning the concrete chute for the lower squares and will also backfill after the concrete has cured.

It is assumed that a slip-form paver will be used, therefore minimal forming will be required.

A sandblaster w/ a compressor will be used to clean all joints. A joint sealant machine will be used to mix/heat the sealant and place it into the dummy and expansion joints.

There will be a pump on hand to pump any water that may accumulate.

ASSUMPTION: Slope is either excavated to a 1V on 3H or backfilled to a 1 on 3 slope.

USR PM conc slope pvmt-				0.52	0.00	0.00	0.00	0.52	
	60.00 LF	FORMING01	100.00	31	0	0	0	31	0.52
USR PM conc slope pvmt-				0.09	0.00	0.00	0.00	0.09	
	4454.90 SF	IRLB1	500.00	382	0	0	0	382	0.09
USR PM conc slope pvmt-				22.32	7.25	0.00	0.00	29.56	
	44.55 SQ	SLOPPAVE01	13.50	994	323	0	0	1,317	29.56
USR PM conc slope pvmt-				0.25	0.12	0.00	0.00	0.36	
production rate is -240 #/hr or INTSLR01	240.00			79	37	0	0	116	0.36
600 lf/hr									
USR PM concrete materia				0.00	0.00	44.28	0.00	44.28	
- SQ x 1.234568 cy/sq x 5% waste				0.00	0	2,557	0	2,557	44.28
USR PM expan jnt filler				0.00	0.00	0.17	0.00	0.17	
1st part of 2 part redwood strip for expansion joint				0.00	0	10	0	10	0.17
USR PM expan jnt filler				0.00	0.00	0.19	0.00	0.19	
	55.70 LF			0.00	0	11	0	11	0.19
USR PM joint sealer cmp				0.00	0.00	1.19	0.00	1.19	
	329.70 LBS			0.00	0	392	0	392	1.19

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM curing compound applied at a cov sf/gal	22.27	GAL		0.00	0.00	0	1.89	0.00	1.89	1.89
USR PM reinforcing mesh	4677.65	SF		0.00	0.00	0	0.15	0.00	0.15	0.15
USR PM stakes, core dri	44.55	SQ		0.00	0.00	0	0.00	2.00	2.00	2.00
USR PM forms, nails, et	60.00	LF		0.00	0.00	0	0.00	0.50	0.50	0.50
USR PM safety & misc	1.00	LS		0.00	0.00	0	0.00	36.10	36.10	36.10
Channel Wall Pav	55.00	CY			1,486	360	3,719	155	5,720	104.00

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DETAIL PAGE

A 09. CHANNELS AND CANALS	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMENT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013003 04. Channel Wall Pavement (6")										
This item is for all labor, equipment, and materials required to construct 6" channel wall pavement.										
A motor grader will prepare the levee surface (fine grade) prior to concrete placement. A tractor and water tank will be used to wet the soil surface before the concrete is placed. A dozer will assist in positioning the concrete chute for the lower squares.										
This item of work will be paved by hand labor, NOT machine.										
A sandblaster w/ a compressor will be used to clean all joints. A joint sealant machine will be used to mix/heat the sealant and place it into the dummy and expansion joints.										
One layer of reinforcing is required in the 6" pavement. 2 laborers and 2 ironworkers will lay out the welded-wire fabric (wwf) prior to concrete paving. It is assumed that the reinforcement will not be continuous into the adjacent slab.										
Assumption: slope is either excavated to a 1V on 3H or backfilled to a 1 on 3 slope.										
USR PM conc slope pvmnt-					0.69	0.00	0.00	0.00	0.69	
60.00 LF FORMING01	75.00			42	0	0	0	0	42	0.69
USR PM conc slope pvmnt-					0.17	0.00	0.00	0.00	0.17	
2321.90 SF IRLB4	500.00			398	0	0	0	0	398	0.17
USR PM conc slope pvmnt-					63.15	6.29	0.00	0.00	69.44	
23.22 SQ SLOPPAVE03	6.50			1,466	146	0	0	0	1,612	69.44
USR PM conc slope pvmnt-					0.25	0.12	0.00	0.00	0.36	
production rate is -240 #/hr or INTSLR01	240.00			41	19	0	0	0	61	0.36
600 lf/hr										
USR PM concrete (2500 p					0.00	0.00	45.36	0.00	45.36	
- SQ x 1.234568 cy/sq x 5% waste	0.00				0	0	2,048	0	2,048	45.36
USR PM expan jnt filler					0.00	0.00	0.26	0.00	0.26	
1st part of 2 part redwoodF	0.00				0	0	19	0	19	0.26
strip for expansion joint										
USR PM expan jnt filler					0.00	0.00	0.29	0.00	0.29	
74.20 LF	0.00				0	0	22	0	22	0
USR PM joint sealer cmp					0.00	0.00	1.19	0.00	1.19	
172.83 LBS	0.00				0	0	205	0	205	1.19

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM curing compound applied at a cov sf/gal	11.61	GAL		0.00	0	0	22	0	22	1.89
USR PM reinforcing mesh	2438.00	SF		0.00	0	0	369	0	369	0.15
USR PM stakes, core dri	23.22	SQ		0.00	0	0	0	70	70	3.00
USR PM forms, nails, etc	60.00	LF		0.00	0	0	0	45	45	0.75
USR PM makeshift chute	1.00	LS		0.00	0	0	0	0	0	0.00
USR PM small tools (5%	1.00	LS		0.00	0	98.00	0.00	0.00	98.00	98.00
USR PM safety & misc	1.00	LS		0.00	9	2.00	-1.08	139.88	149.80	
						2	-1	140	150	149.80
Channel Wall Pav	43.00	CY			1,956	265	2,684	255	5,160	120.00

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09013003 05. Channel Wall Pavement (8")										
This item is for all equipment, labor, and materials required to construct 8" channel wall pavement.										
This operation is the same as that for 6" channel wall pavement.										
USR PM conc slope pvmt-										
60.00	LF	FORMING01	75.00		0.69	0.00	0.00	0.00	0.69	
					42	0	0	0	42	0.69
USR PM conc slope pvmt-										
2511.00	SF	IRLB4	500.00		0.17	0.00	0.00	0.00	0.17	
					430	0	0	0	430	0.17
USR PM conc slope pvmt-										
25.11	SQ	SLOPPAVE03	4.90		83.77	8.34	0.00	0.00	92.12	
					2,104	210	0	0	2,313	92.12
USR PM conc slope pvmt-										
production rate is -240 #/hr or INTSLR01				240.00	0.25	0.12	0.00	0.00	0.36	
600 lf/hr					84	39	0	0	123	0.36
USR PM concrete (2500 p										
- SQ x 1.234568 cy/sq x 5% waste				0.00	0.00	0.00	45.36	0.00	45.36	
					0	0	2,953	0	2,953	4
USR PM expan jnt filler										
1st part of 2 part redwoodF strip for expansion joint				0.00	0.00	0.00	0.35	0.00	0.35	
					0	0	11	0	11	0.35
USR PM expan jnt filler										
32.30	LF		0.00		0.00	0.00	0.39	0.00	0.39	
					0	0	13	0	13	0.39
USR PM joint sealer cmp										
348.96	LBS		0.00		0.00	0.00	1.19	0.00	1.19	
					0	0	415	0	415	1.19
USR PM curing compound										
applied at a cov 12.56 GAL sf/gal				0.00	0.00	0.00	1.89	0.00	1.89	
					0	0	24	0	24	1.89
USR PM reinforcing mesh										
2636.55	SF		0.00		0.00	0.00	0.15	0.00	0.15	
					0	0	399	0	399	0.15
USR PM stakes, core dri										
25.11	SQ		0.00		0.00	0.00	0.00	3.00	3.00	
					0	0	0	75	75	3.00
USR PM forms, nails, etc										
60.00	LF		0.00		0.00	0.00	0.00	0.75	0.75	
					0	0	0	45	45	0.75
USR PM small tools (5%										
1.00	LS		0.00		0.00	132.00	0.00	0.00	132.00	
					0	132	0	0	132	132
USR PM safety & misc										
1.00	LS		0.00		0.00	0.00	0.00	466.00	466.00	
					0	466	0	466	466	466.00

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A 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

Channel Wall Pav	62.00 CY	2,659	381	3,814	586	7,440	120.00
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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09019905 01. Fence (chain link)										
This item will include cost to do the following work:										
Construct a chain link fence along the top edge of the concrete.										
Three laborers will construct the fence										
USR PM install chain li				1.00	0.12	0.00	0.00	0.00	1.12	
	300.00	LF	LABR5	50.00	300	37	0	0	337	1.12
USR PM 5' chain link -				0.00	0.00	1.89	0.00	0.00	1.89	
	300.00	LF		0.00	0	0	567	0	567	1.89
USR PM line post - 2 3/				0.00	0.00	13.50	0.00	0.00	13.50	
	30.00	EA		0.00	0	0	405	0	405	13.50
USR PM #6 gage tension				0.00	0.00	0.10	0.00	0.00	0.10	
	300.00	LF		0.00	0	0	29	0	29	0.10
USR PM #9 gage line pos				0.00	0.00	0.10	0.00	0.00	0.10	
	150.00	EA		0.00	0	0	15	0	15	0.10
USR PM #12 gage top rai				0.00	0.00	0.09	0.00	0.00	0.09	
	300.00	EA		0.00	0	0	26	0	26	0.09
USR PM 1 5/8 od top rai				0.00	0.00	1.19	0.00	0.00	1.19	
	300.00	LF		0.00	0	0	356	0	356	1.19
USR PM top connection				0.00	0.00	3.15	0.00	0.00	3.15	
	30.00	EA		0.00	0	0	95	0	95	3.15
USR PM safety & misc				0.00	0.00	0.00	23.54	23.54	23.54	
	1.00	LS		0.00	0	0	0	24	24	23.54
USR PM concrete (200#/p				0.00	0.00	3.24	0.00	0.00	3.24	
	30.00	EA		0.00	0	0	97	0	97	3.24
USR PM sleeve				0.00	0.00	0.99	0.00	0.00	0.99	
	30.00	EA		0.00	0	0	30	0	30	0.99
Fence (chain lin	300.00	LF			300	37	1,620	24	1,980	6.60

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A 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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A 09019906 01. Aesthetic Tree Planting

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
 5 gallon, 2 year crop

10 cypress - \$6 ea
 5 drake elm - \$14 ea
 5 swamp red maple - \$6 ea
 10 sweet gum - \$6 ea
 25 water oak - \$6 ea
 30 willow oak - \$6 ea
 5 crepe myrtle - \$8 ea
 10 flash pine - \$11 ea

 WEIGHTED COST: \$7/tree

USR PM tree planting -			3.69	0.47	0.00	0.00	4.16		
	1050.00 EA	TREE01B	30.00	3,874	495	0	0	4,369	4.16
USR PM small tools(5% o			0.00	194.00	0.00	0.00	194.00		
	1.00 LS		0.00	0	194	0	0	194	194.00
USR PM trees			0.00	0.00	7.56	0.00	7.56		
	1050.00 EA		0.00	0	0	7,938	0	7,938	7.56
USR PM safety & misc			0.00	0.00	0.00	98.90	98.90		
	1.00 LS		0.00	0	0	0	99	99	98.90
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Aesthetic Tree P	1050.00 EA		3,874	689	7,938	99	12,600	12.00	

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DETAIL PAGE

A 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
A 09019906 02. Aesthetic Shrub Planting										
This item is for all equipment, labor, and materials required to plant shrubs. 4 laborers will be used to plant shrubs. A flatbed truck will be used to haul shrubs to planting sites.										
USR PM shrub planting				3.69	0.47	0.00	0.00	4.16		
	1760.00	EA	TREE01B	30.00	6,493	830	0	0	7,323	4.16
USR PM small tools(5% o				0.00	325.00	0.00	0.00	325.00		
	1.00	LS		0.00	0	325	0	0	325	325.00
USR PM shrubs				0.00	0.00	4.32	0.00	4.32		
	1760.00	EA		0.00	0	0	7,603	0	7,603	4.32
USR PM safety & misc				0.00	0.00	0.00	236.42	236.42		
	1.00	LS		0.00	0	0	0	236	236	236.42
Aesthetic Shrub	1760.00	EA		6,493	1,155	7,603	236	15,488	8.80	
<hr/>										
Channels and Can				578,188	638,375	65,036	162,933	1,444,532		

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A 29. Project Cooperation QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

A 29. Project Cooperation Agreements

USR	Project Cooperat		0.00	0.00	0.00	4100.00	4100.00
		1.00 LS	0.00	0	0	4,100	4,100
	Project Cooperat			0	0	0	4,100
							4,100

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A 30. Engineering and Des QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

A 30. Engineering and Design

USR	Engineering and		0.00	0.00	0.00	851000.00	851000.00
		1.00 LS	0.00	0	0	851,000	851,000 851000.00
	Engineering and			0	0	0	851,000 851,000

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A 31. Construction Manage QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

A 31. Construction Management

USR	Construction Man		0.00	0.00	0.00	304000.00	304000.00
		1.00 LS	0.00	0	0	304,000	304,000 304000.00
	Construction Man			0	0	0	304,000
	Bayou Fountain		581,926	1,639,054	68,613	1,344,927	3,634,520

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B 01. Lands and Damages		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B. Jones Creek											
B 01. Lands and Damages											
USR	Lands and Damage				0.00	0.00	0.00	393020.00	393020.00		
		1.00	LS		0.00	0	0	393,020	393,020	393020.00	
	Lands and Damage					0	0	0	393,020	393,020	

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B 06. Fish & Wildlife Fac QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

B 06. Fish & Wildlife Facilities

B 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of barb-wire.

1st site 6432 lf

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DETAIL PAGE 02

B 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 06037302 01. Planting Trees										
This item will include cost to do the following work:										
Planting the selected mitigation site.										
Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.										
1st site 111 acre										
USR PM planting trees				42.16	7.66	0.00	0.00	49.83		
	111.00 AC	TRACTOR1	0.80	4,680	851	0	0	5,531	49.83	
USR PM seedlings (300				0.00	0.00	0.16	0.00	0.16		
	33300 EA		0.00	0	0	5,395	0	5,395	0.16	
USR PM safety & misc				0.00	0.00	0.00	729.68	729.68		
	1.00 LS		0.00	0	0	0	730	730	72	
USR PM Land preparation				0.00	0.00	0.00	15.00	15.00		
	111.00 AC		0.00	0	0	0	1,665	1,665	15.00	
Planting Trees	111.00 AC			4,680	851	5,395	2,395	13,320	120.00	
<hr/>										
Fish & Wildlife				17,408	3,164	16,648	4,144	41,363		
<hr/>										

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09. Channels and Canals

B 09010101 01. Mob & Demob

This item will include cost to do the following work:
mob and demob all equipment

1 operation

mob	1 day
demob	1 day
subtotal	2 days

of contracts 2

2 operation x 2 contracts = 4 operations

4 operations x 2 wd / operation = 8 days + 2 days (additional) = 10 wd

USR PM AIR COMPRESSOR			0.00	2.92	0.00	0.00	2.92		
	100.00 HR	AIRF	1.00	0	292	0	0	292	2.92
USR PM BACKHOE CAT 225B			0.00	20.95	0.00	0.00	20.95		
	200.00 HR	BKHB	1.00	0	4,190	0	0	4,190	20.95
USR PM BACKHOE CAT 235			0.00	39.52	0.00	0.00	39.52		
	100.00 HR	BKHC	1.00	0	3,952	0	0	3,952	39.52
USR PM chipping machine			0.00	15.00	0.00	0.00	15.00		
	100.00 HR	CHIPPER	1.00	0	1,500	0	0	1,500	15.00
USR PM chainsaw, Homeli			0.00	0.17	0.00	0.00	0.17		
	200.00 HR	CHNSAW	1.00	0	34	0	0	34	0.17
USR PM CHERRYPICKER GRO			0.00	13.53	0.00	0.00	13.53		
	100.00 HR	CHYA	1.00	0	1,353	0	0	1,353	13.53
USR PM sealant hot mixe			0.00	3.50	0.00	0.00	3.50		
	100.00 HR	CMLT	1.00	0	350	0	0	350	3.50
USR PM CONCRETE PAVER 2			0.00	27.97	0.00	0.00	27.97		
	100.00 HR	CNPV	1.00	0	2,797	0	0	2,797	27.97
USR PM DOZER D-4 W/BLAD			0.00	7.56	0.00	0.00	7.56		
	100.00 HR	DOZA	1.00	0	756	0	0	756	7.56
USR PM DOZER D-6 W/BLAD			0.00	13.85	0.00	0.00	13.85		
	500.00 HR	DOZB	1.00	0	6,925	0	0	6,925	13.85
USR PM F E LOADER CAT 9			0.00	13.73	0.00	0.00	13.73		
	100.00 HR	FELA	1.00	0	1,373	0	0	1,373	13.73
USR PM MOTOR GRADER CAT			0.00	13.17	0.00	0.00	13.17		
	100.00 HR	MOTG	1.00	0	1,317	0	0	1,317	13.17

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER PUMP 3" HO					0.00	0.15	0.00	0.00	0.15	
	100.00	HR	PMPC	1.00	0	15	0	0	15	0.15
USR PM trencher, chain,					0.00	1.74	0.00	0.00	1.74	
	100.00	HR	T30DW002	1.00	0	174	0	0	174	1.74
USR PM FARM TRACTOR JD					0.00	2.24	0.00	0.00	2.24	
	100.00	HR	TRCB	1.00	0	224	0	0	224	2.24
USR PM WATER TRUCK 2000					0.00	5.97	0.00	0.00	5.97	
	100.00	HR	TRKA	1.00	0	597	0	0	597	5.97
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	3100.00	HR	TRKI	1.00	0	68,200	0	0	68,200	22.00
USR PM CARPENTER					26.04	0.00	0.00	0.00	26.04	
	200.00	HR	CARM	1.00	5,208	0	0	0	5,208	26.04
USR PM CEMENT MASON					23.26	0.00	0.00	0.00	23.26	
	400.00	HR	CMNM	1.00	9,305	0	0	0	9,305	23.26
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	500.00	HR	FOREMAN3	1.00	13,250	0	0	0	13,250	26.50
USR PM IRONWORKER					26.18	0.00	0.00	0.00	26.18	
	100.00	HR	IRNM	1.00	2,618	0	0	0	2,618	26.18
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	400.00	HR	LABM	1.00	6,668	0	0	0	6,668	16.67
USR PM PEO-ALL EXCPT DR					25.84	0.00	0.00	0.00	25.84	
	1800.00	HR	PEOM	1.00	46,511	0	0	0	46,511	25.84
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	3100.00	HR	TRKM	1.00	54,250	0	0	0	54,250	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	1000.00	HR	LABM	1.00	16,670	0	0	0	16,670	16.67
USR PM LABORER (reinf)					16.67	0.00	0.00	0.00	16.67	
	200.00	HR	LABM	1.00	3,334	0	0	0	3,334	16.67
USR PM trailering					0.00	0.00	0.00	1500.00	1500.00	
	72.00	EA		0.00	0	0	0	108,000	108,000	1500.00
USR PM safety & misc					-2.00	0.00	0.00	16137.32	16135.32	
	1.00	LS		0.00	-2	0	0	16,137	16,135	16135.32

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B 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

B 09011502 01. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
 2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09011502 02. Degrading, hauling, shaping 16mi

This item consists of three operations:

1) a backhoe will excavate material and load into waiting trucks. The material will be hauled to locations within 2 miles. A dozer will be used at the excavation site and the disposal site.

Quantity: 105,000 cy @ 100 cy/hr - 2 mile/ 1 way

2) a backhoe will excavate material and load into awaiting trucks. The material will be hauled to Devil's swamp. A dozer will be used full time at the excavation site and at the disposal site.

Quantity: 57,000 cy @ 210 cy/hr - 22 mile/ 1 way

3) a dozer and a motor grader will shape areas where excavation or fill is not required. The reach is given as 6 miles.

Quantity: 31,680 LF @ 300 LF/wd

ASSUMPTION:

A narrow strip of road access is available on each side of all the creeks or bayous. The strip either exists already or is built as part of the backfill item. The backfill item restores the creek or bayou to the design template which has enough width at the top of bank to allow passage of trucks.

Work will progress in phases since continuous access is not available.

Phase 1: excavate/fill on one side of the channel.

Phase 2: once excavation/fill has progressed enough, then that work will be halted and the concrete paving operation will advance up to the area where excavation/fill was halted. This type of operation is necessary since ROW is limited to 20 ft making it impractical for two-way passage of haul and concrete trucks.

USR PM BACKHOE CAT 225B			0.00	36.92	0.00	0.00	36.92
	1050.00 HR	BKHB	1.00	0	38,766	0	38,766
USR PM DOZER D-6 W/BLAD			0.00	32.01	0.00	0.00	32.01
	2100.00 HR	DOZB	1.00	0	67,221	0	67,221
USR PM Dump truck, 12 c			0.00	22.00	0.00	0.00	22.00
	6300.00 HR	TRKI	1.00	0	138,600	0	138,600
USR PM WATER TRUCK 2000			0.00	16.02	0.00	0.00	16.02
	525.00 HR	TRKA	1.00	0	8,411	0	8,411
USR PM MOTOR GRADER CAT			0.00	24.29	0.00	0.00	24.29
	525.00 HR	MOTG	1.00	0	12,752	0	12,752
USR PM OILER			16.50	0.00	0.00	0.00	16.50
	1050.00 HR	OILM	1.00	17,327	0	0	17,327

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	6300.00	HR	TRKM	1.00	110,250	0	0	0	110,250	17.50
USR PM PEO-backhoe					25.84	0.00	0.00	0.00	25.84	
	1050.00	HR	PEOM	1.00	27,132	0	0	0	27,132	25.84
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	2100.00	HR	PEOM	1.00	54,263	0	0	0	54,263	25.84
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	525.00	HR	PEOM	1.00	13,566	0	0	0	13,566	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	525.00	HR	TRKM	1.00	9,188	0	0	0	9,188	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	1050.00	HR	LABM	1.00	17,504	0	0	0	17,504	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	1050.00	HR	LABM	1.00	17,504	0	0	0	17,504	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1050.00	HR	FOREMAN3	1.00	27,825	0	0	0	27,825	26.50
USR PM haul roads (~10%					0.00	0.00	0.00	48593.00	48593.00	
	1.00	LS		0.00	0	0	0	48,593	48,593	48593.00
USR PM small tools					0.00	8837.00	0.00	0.00	8837.00	
	1.00	LS		0.00	0	8,837	0	0	8,837	8837.00
USR PM all other operat					0.00	5315.00	0.00	0.00	5315.00	
	1.00	LS		0.00	0	5,315	0	0	5,315	5315.00
USR PM safety & misc					0.00	0.00	0.00	32926.60	32926.60	
	1.00	LS		0.00	0	0	0	32,927	32,927	32926.60
USR PM BACKHOE CAT 225B					0.00	36.92	0.00	0.00	36.92	
	271.00	HR	BKHB	1.00	0	10,005	0	0	10,005	36.92
USR PM DOZER D-6 W/BLAD					0.00	32.01	0.00	0.00	32.01	
	542.00	HR	DOZB	1.00	0	17,349	0	0	17,349	32.01
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	7859.00	HR	TRKI	1.00	0	172,898	0	0	172,898	22.00
USR PM WATER TRUCK 2000					0.00	16.02	0.00	0.00	16.02	
	136.00	HR	TRKA	1.00	0	2,179	0	0	2,179	16.02
USR PM MOTOR GRADER CAT					0.00	24.29	0.00	0.00	24.29	
	136.00	HR	MOTG	1.00	0	3,303	0	0	3,303	24.29

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM OILER					16.50	. 0.00	0.00	0.00	16.50	
	271.00	HR	OILM	1.00	4,472	0	0	0	4,472	16.50
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	7859.00	HR	TRKM	1.00	137,533	0	0	0	137,533	17.50
USR PM PEO-backhoe					25.84	0.00	0.00	0.00	25.84	
	271.00	HR	PEOM	1.00	7,003	0	0	0	7,003	25.84
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	542.00	HR	PEOM	1.00	14,005	0	0	0	14,005	25.84
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	136.00	HR	PEOM	1.00	3,514	0	0	0	3,514	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	136.00	HR	TRKM	1.00	2,380	0	0	0	2,380	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	271.00	HR	LABM	1.00	4,518	0	0	0	4,518	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	271.00	HR	LABM	1.00	4,518	0	0	0	4,518	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	271.00	HR	FOREMAN3	1.00	7,182	0	0	0	7,182	26.50
USR PM haul roads (10%)					0.00	0.00	0.00	34133.00	34133.00	
	1.00	LS		0.00	0	0	0	34,133	34,133	34133.00
USR PM small tools					0.00	5553.00	0.00	0.00	5553.00	
	1.00	LS		0.00	0	5,553	0	0	5,553	5553.00
USR PM all other operat					0.00	4114.00	0.00	0.00	4114.00	
	1.00	LS		0.00	0	4,114	0	0	4,114	4114.00
USR PM safety & misc					0.00	0.00	0.00	26164.00	26164.00	
	1.00	LS		0.00	0	0	0	26,164	26,164	26164.00
USR PM MOTOR GRADER CAT					0.00	24.29	0.00	0.00	24.29	
	1056.00	HR	MOTG	1.00	0	25,650	0	0	25,650	24.29
USR PM DOZER D-6 W/BLAD					0.00	32.01	0.00	0.00	32.01	
	1056.00	HR	DO2B	1.00	0	33,803	0	0	33,803	32.01
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	1056.00	HR	FOREMAN3	1.00	27,984	0	0	0	27,984	26.50
USR PM PEO dozer					25.84	0.00	0.00	0.00	25.84	
	1056.00	HR	PEOM	1.00	27,287	0	0	0	27,287	25.84

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
	1056.00	HR	PEOM	1.00	27,287	0	0	0	27,287	25.84
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	2112.00	HR	LABM	1.00	35,207	0	0	0	35,207	16.67
USR PM safety & misc				-1.00	0.00	0.00	1982.00	1981.00	1981.00	
	1.00	LS		0.00	-1	0	0	1,982	1,981	1981.00
Degrading, hauli	162000	CY		597,445	554,756	0	143,799	1,296,000		8.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09011502 03. Clearing and Snagging

This item will include all cost to clear and snag the:
1. channel right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

Some areas will have to be cleared so that access will be allowed for the excavator.

USR PM Clearing w/ D-6,				1206.89	906.70	0.00	-0.06	2113.53	
3.00 AC	CLEARING1	0.10		3,621	2,720	0	0	6,341	2113.53
USR PM Snagging w/ 235,				6034.47	6372.00	0.00	0.00	12406.47	
3.00 MI	SNAGGING1	0.02		18,103	19,116	0	0	37,219	12406.47
USR PM safety & misc				0.00	1.00	0.00	2039.00	2040.00	
1.00 LS		0.00		0	1	0	2,039	2,040	2040.00
				-----	-----	-----	-----	-----	-----
Clearing and Sna	3.00 MI			21,724	21,837	0	2,039	45,600	15200.00

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B 09. Channels and Canals QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013002 01. sand (8" thick)

This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.

ASSUMPTIONS:

1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.

USR PM safety & misc		0.00	0.00	0.00	3748.50	3748.50	
	1.00 LS	0.00	0	0	3,749	3,749	3748.50
USR PM all other operat		0.00	6324.00	0.00	0.00	6324.00	
	1.00 LS	0.00	0	6,324	0	6,324	6324.00
USR PM small tools		0.00	8461.00	0.00	0.00	8461.00	
	1.00 LS	0.00	0	8,461	0	8,461	8461.00
USR PM sand material		0.00	0.00	0.00	1.25	1.25	
	84000 CY	0.00	0	0	105,000	105,000	1.25
USR PM haul roads (10#)		0.00	0.00	0.00	57742.00	57742.00	
	1.00 LS	0.00	0	0	57,742	57,742	57742.00
USR PM BACKHOE CAT 225B		0.00	36.92	0.00	0.00	36.92	
	400.00 HR BKHB	1.00	0	14,768	0	14,768	36.92
USR PM DOZER D-6 W/BLAD		0.00	32.01	0.00	0.00	32.01	
	600.00 HR DOZB	1.00	0	19,206	0	19,206	32.01
USR PM DUMP TRUCK 12 C		0.00	22.11	0.00	0.00	22.11	
	12400 HR TRKE	1.00	0	274,164	0	274,164	22.11
USR PM WATER TRUCK 2000		0.00	16.02	0.00	0.00	16.02	
	200.00 HR TRKA	1.00	0	3,204	0	3,204	16.02
USR PM MOTOR GRADER CAT		0.00	24.29	0.00	0.00	24.29	
	200.00 HR MOTG	1.00	0	4,858	0	4,858	24.29
USR PM OILER		16.50	0.00	0.00	0.00	16.50	
	400.00 HR OILM	1.00	6,601	0	0	6,601	16.50
USR PM TRUCK DRIVER		17.50	0.00	0.00	0.00	17.50	
	12400 HR TRKM	1.00	217,000	0	0	217,000	17.50
USR PM PEO-backhoe		25.84	0.00	0.00	0.00	25.84	
	400.00 HR PEOM	1.00	10,336	0	0	10,336	25.84

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer				25.84	0.00	0.00	0.00	0.00	25.84	
	600.00	HR	PEOM	1.00	15,504	0	0	0	15,504	25.84
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
	200.00	HR	PEOM	1.00	5,168	0	0	0	5,168	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	
	200.00	HR	TRKM	1.00	3,500	0	0	0	3,500	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	400.00	HR	LABM	1.00	6,668	0	0	0	6,668	16.67
USR PM flagmen				16.67	0.00	0.00	0.00	0.00	16.67	
	400.00	HR	LABM	1.00	6,668	0	0	0	6,668	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
	400.00	HR	FOREMAN3	1.00	10,600	0	0	0	10,600	26.50
sand (8" thick)	84000	CY		282,045	330,985		0	166,491	779,520	

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B 09. Channels and Canals QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013002 02. Filter Drain Fabric

This item will include cost to do the following work:

Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.

USR PM cherry picker, P		0.42	0.19	0.00	0.00	0.61	
418700 SY CHYPK1	140.00	176,991	78,656	0	0	255,647	0.61
USR PM drainage composi		0.00	0.00	5.35	0.00	5.35	
418700 SY	0.00	0	0	2,238,370	0	2,238,370	5.35
USR PM safety & misc		0.00	0.00	0.00	18183.00	18183.00	
1.00 LS	0.00	0	0	0	18,183	18,183	18183.00
-----		176,991	78,656	2,238,370	18,183	2,512,200	6.00
Filter Drain Fab 418700 SY							

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013002 03. Fuseplug Dams

This item will include cost to do the following work:

Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.

total length of all work: 89,400 LF

Quantity: 89,400 lf / 2,000 lf/dam = 44.7 dams

44.7 dams * 2(replacement factor) = 90 dams

Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss

=> approx. 40 cy/dam; 90 dams * 40 cy/dam = 3600 cy

Estimated time: 1 dam per day

USR PM construct dams			6.46	9.23	0.00	0.00	15.69	
	3600.00 CY	BKH002	4.00	23,256	33,228	0	0	56,484 15.69
USR PM culvert			0.00	0.00	1080.00	0.00	1080.00	
	6.00 EA		0.00	0	0	6,480	0	6,480 1080.00
USR PM breaching dams			0.00	0.00	0.00	400.00	400.00	
	40.00 EA		0.00	0	0	0	16,000	16,000 400.00
USR PM safety & misc			0.00	0.00	0.00	7436.27	7436.27	
	1.00 LS		0.00	0	0	0	7,436	7,436 7436.27
<hr/>								
Fuseplug Dams			23,256	33,228	6,480	23,436	86,400	

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09013003 01. Cutoff Wall										
This item is for all labor, equipment, and materials required to construct the cut-off walls for the channel wall pavement.										
The cut-off walls will be placed in conjunction with the top squares of channel wall pavement.										
USR PM conc slope pvmnt-				0.26	0.05	0.00	0.00	0.00	0.31	
	168960 LF	TRENCHERO1	100.00	43,659	8,059	0	0	51,718	0.31	
USR PM conc slope pvmnt-				0.69	0.00	0.00	0.00	0.00	0.69	
	168960 LF	FORMING01	75.00	117,329	0	0	0	117,329	0.69	
USR PM conc slope pvmnt-				23.17	7.53	0.00	0.00	0.00	30.70	
	4981.37 SQ	SLOPPAVE01	13.00	115,442	37,495	0	0	152,937	30.70	
USR PM conc slope pvmnt-				0.26	0.18	0.00	0.00	0.00	0.44	
	42240 LF	DOZER001	100.00	10,915	7,705	0	0	18,619	0.44	
USR PM concrete materia				0.00	0.00	44.28	0.00	0.00	44.28	
- SQ x 1.234568 cy/sq x 5% waste				0.00	0	0	285,938	0	285,938	44.28
USR PM curing compound				0.00	0.00	1.89	0.00	0.00	1.89	
applied at a cov 2490.69 GAL sf/gal				0.00	0	0	4,707	0	4,707	1.89
USR PM stakes, core dri				0.00	0.00	0.00	2.00	2.00	2.00	
	4981.37 SQ			0.00	0	0	0	9,963	9,963	2.00
USR PM forms, nails, et				0.00	0.00	0.00	0.35	0.35	0.35	
	168960 LF			0.00	0	0	0	59,136	59,136	0.35
USR PM makeshift chute				0.00	0.00	0.00	1000.00	1000.00	1000.00	
	1.00 LS			0.00	0	0	0	1,000	1,000	1000.00
USR PM small tools (5t)				0.00	14365.00	0.00	0.00	14365.00	14365.00	
	1.00 LS			0.00	0	14,365	0	0	14,365	14365.00
USR PM safety & misc				0.00	0.00	0.00	22287.00	22287.00	22287.00	
	1.00 LS			0.00	0	0	0	22,287	22,287	22287.00
Cutoff Wall	6150.00	CY		287,344	67,624	290,645	92,386	738,000	120.00	

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DETAIL PAGE

B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
B 09013003 02. Channel Wall Pavement (4")										
This item is for all labor, equipment, and materials required to construct 4" concrete channel wall pavement.										
Reference: Bayou Fountain - 4" channel pavement										
<hr/>										
USR PM 4" channel wall				0.00	0.00	0.00	104.00	104.00		
			82300 CY	0.00	0	0	0	8,559,200	8,559,200	104.00
<hr/>										
Channel Wall Pav			82300 CY		0	0	0	8,559,200	8,559,200	104.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 03. Channel Wall Pavement (6")

This item is for all labor, equipment, and materials required to construct
 6" concrete channel wall pavement.

Reference: Bayou Fountain - 6" channel wall pavement

USR PM 6" channel wall				0.00	0.00	0.00	120.00	120.00		
	61300 CY			0.00	0	0	0	7,356,000	7,356,000	120.00

Channel Wall Pav	61300 CY				0	0	0	7,356,000	7,356,000	120.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 04. Channel Wall Pavement (8")

This item is for all labor, equipment, and materials required to construct
8" concrete channel wall pavement.

Reference: Bayou Fountain - 8" channel wall pavement

USR PM 8" channel wall				0.00	0.00	0.00	120.00	120.00		
	11000 CY			0.00	0	0	0	1,320,000	1,320,000	120.00
<hr/>										
Channel Wall Pav	11000 CY				0	0	0	1,320,000	1,320,000	120.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09013003 05. drain ditch

This item is for all labor, equipment, and materials to construct concrete drainage ditches along each side of the new paved creek channel.

The details are the same as 4" Channel wall pavement.

USR PM concrete paved d				0.00	0.00	0.00	104.00	104.00		
This item is the same as 4"				0.00	0	0	0	3,442,400	3,442,400	104.00
channel wall pavement.										
drain ditch	33100	CY			0	0	0	3,442,400	3,442,400	104.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09019905 01. Fence (chain link)										
This item will include cost to do the following work:										
Construct a chain link fence along the top edge of the concrete.										
Three laborers will construct the fence										
USR PM install chain li				1.00	0.12	0.00	0.00	0.00	1.12	
	171000	LF	LABR5	50.00	171,036	20,930	0	0	191,967	1.12
USR PM 5' chain link -				0.00	0.00	1.89	0.00	0.00	1.89	
	171000	LF		0.00	0	0	323,190	0	323,190	1.89
USR PM line post - 2 3/				0.00	0.00	13.50	0.00	0.00	13.50	
	17100	EA		0.00	0	0	230,850	0	230,850	13.50
USR PM #6 gage tension				0.00	0.00	0.10	0.00	0.00	0.10	
	171000	LF		0.00	0	0	16,621	0	16,621	0.10
USR PM #9 gage line pos				0.00	0.00	0.10	0.00	0.00	0.10	
	85500	EA		0.00	0	0	8,311	0	8,311	0.10
USR PM #12 gage top rai				0.00	0.00	0.09	0.00	0.00	0.09	
	171000	EA		0.00	0	0	14,774	0	14,774	0.09
USR PM 1 5/8 od top rai				0.00	0.00	1.19	0.00	0.00	1.19	
	171000	LF		0.00	0	0	203,148	0	203,148	1.19
USR PM top connection				0.00	0.00	3.15	0.00	0.00	3.15	
	17100	EA		0.00	0	0	53,927	0	53,927	3.15
USR PM safety & misc				0.00	0.00	0.00	13418.00	13418.00	13418.00	
	1.00	LS		0.00	0	0	0	13,418	13,418	13418.00
USR PM concrete (200#/p				0.00	0.00	3.24	0.00	0.00	3.24	
	17100	EA		0.00	0	0	55,404	0	55,404	3.24
USR PM sleeve				0.00	0.00	0.99	0.00	0.00	0.99	
	17100	EA		0.00	0	0	16,991	0	16,991	0.99
Fence (chain lin	171000	LF		171,036	20,930	923,215	13,418	1,128,600	6.60	

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 09019906 01. Aesthetic Tree Planting

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
 5 gallon, 2 year crop

10 cypress - \$6 ea
 5 drake elm - \$14 ea
 5 swamp red maple - \$6 ea
 10 sweet gum - \$6 ea
 25 water oak - \$6 ea
 30 willow oak - \$6 ea
 5 crepe myrtle - \$8 ea
 10 slash pine - \$11 ea

 WEIGHTED COST: \$7/tree

USR PM tree planting -			3.69	0.47	0.00	0.00	4.16		
	1800.00 EA	TREE01B	30.00	6,641	849	0	0	7,490	4.16
USR PM small tools(5% o			0.00	332.00	0.00	0.00	332.00		
	1.00 LS		0.00	0	332	0	0	332	332.00
USR PM trees			0.00	0.00	7.56	0.00	7.56		
	1800.00 EA		0.00	0	0	13,608	0	13,608	7.56
USR PM safety & misc			0.00	0.00	0.00	170.00	170.00		
	1.00 LS		0.00	0	0	0	170	170	170.00
Aesthetic Tree P	1800.00 EA		6,641	1,181	13,608	170	21,600		12.00

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B 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
B 09019906 02. Aesthetic Shrub Planting										
This item is for all equipment, labor, and materials required to plant shrubs. 4 laborers will be used to plant shrubs. A flatbed truck will be used to haul shrubs to planting sites.										
USR PM shrub planting				3.69	0.47	0.00	0.00	0.00	4.16	
	3000.00	EA	TREE01B	30.00	11,068	1,415	0	0	12,483	4.16
USR PM small tools(5% o				0.00	553.00	0.00	0.00	0.00	553.00	
	1.00	LS		0.00	0	553	0	0	553	553.00
USR PM shrubs				0.00	0.00	4.32	0.00	0.00	4.32	
	3000.00	EA		0.00	0	0	12,960	0	12,960	4.32
USR PM safety & misc				0.00	0.00	0.00	404.00	404.00	404.00	
	1.00	LS		0.00	0	0	0	404	404	404.00
Aesthetic Shrub	3000.00	EA		11,068	1,968	12,960	404	26,400		8.80
Channels and Can				2,063,638	1,501,600	3,485,279	21,311,963	28,362,480		

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B. Jones Creek

B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14. Recreation Facilities

B 14002202 02. Bridge - 10' x 50'

This item will include all equipment, labor, and materials required to furnish and install steel pedestrian bridges.

USR PM pedestrian bridg				1122.09	528.60	0.00	0.00	1650.69	
This item is for the installation of a pre-fabricated steel bridge - like a Continental Bridge.	1.00 EA	IRLB3	0.10	1,122	529	0	0	1,651	1650.69
USR PM prefab steel bri				0.00	0.00	0.00	12500.00	12500.00	
	1.00 EA		0.00	0	0	0	12,500	12,500	12500.00
USR PM concrete for abu				0.00	0.00	0.00	400.00	400.00	
	9.00 CY		0.00	0	0	0	3,600	3,600	400.00
USR PM safety & misc				0.00	0.00	0.00	1049.31	1049.31	
	1.00 LS		0.00	0	0	0	1,049	1,049	1049.31
Bridge - 10' x 5				1,122	529	0	17,149	18,800	

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B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
B 14002202 03. Bridge - 10' x 150'										
This item will include all equipment, labor, and materials required to furnish and install steel pedestrian bridges.										
USR PM pedestrian bridg				1122.09	528.60	0.00	0.00	0.00	1650.69	
This item is for the	1.00	EA	IRLB3	0.10	1,122	529	0	0	1,651	1650.69
installation of a										
pre-fabricated steel bridge -										
like a Continental Bridge.										
USR PM prefab steel bri				0.00	0.00	0.00	78000.00	78000.00		
1.00 EA	0.00			0	0	0	78,000	78,000	78000.00	
USR PM concrete for abu				0.00	0.00	0.00	400.00	400.00		
10.00 CY	0.00			0	0	0	4,000	4,000	4,000	400.00
USR PM safety & misc				0.00	0.00	0.00	1149.30	1149.30		
1.00 LS	0.00			0	0	0	1,149	1,149	1,149	1149.30
<hr/>										
Bridge - 10' x 1				1,122	529	0	83,149	83,149	84,800	

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B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 04. Signs & Markers

This item entails all plant, labor, equipment, and materials necessary for purchase and placement of signs and markers. No requirements were given.

Assumptions:

1. 0.08" aluminum reflectorized signs
2. 2 galvanized steel posts per sign, 12' length

All signs can be placed in a 10 hour day.

USR PM Informational SI				21.36	0.00	0.00	0.00	21.36	
Mcaces #02722 11	20.00	EA	CPLBM	2.00	427	0	0	427	21.36
USR PM signs				0.00	0.00	43.20	0.00	43.20	
	20.00	EA		0.00	0	0	864	0	864
USR PM posts (2/sign)				0.00	0.00	27.00	0.00	27.00	
	40.00	EA		0.00	0	0	1,080	0	1,080
USR PM safety & misc				0.00	0.00	0.00	7.90	7.90	
	1.00	LS		0.00	0	0	0	8	8
USR PM concrete				0.00	0.00	0.00	160.00	160.00	
	1.00	LS		0.00	0	0	160	160	160.00
USR PM small tools (5%				0.00	21.00	0.00	0.00	21.00	
	1.00	LS		0.00	0	21	0	0	21
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Signs & Markers	20.00	EA		427	21	1,944	168	2,560	128.00

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B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 05. Trees

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
5 gallon, 2 year crop

10 cypress - \$6 ea
5 drake elm - \$14 ea
5 swamp red maple - \$6 ea
10 sweet gum - \$6 ea
25 water oak - \$6 ea
30 willow oak - \$6 ea
5 crepe myrtle - \$8 ea
10 flash pine - \$11 ea

WEIGHTED COST: \$7/tree

USR PM tree planting -				3.69	0.47	0.00	0.00	4.16	
	4431.00 EA	TREE01B	30.00	16,348	2,090	0	0	18,438	4.16
USR PM small tools(5% o				0.00	0.00	0.00	817.00	817.00	
	1.00 LS		0.00	0	0	0	817	817	817.00
USR PM trees				0.00	0.00	7.56	0.00	7.56	
	4431.00 EA		0.00	0	0	33,498	0	33,498	7.56
USR PM safety & misc				0.00	0.00	0.00	419.00	419.00	
	1.00 LS		0.00	0	0	0	419	419	419.00
Trees	4431.00 EA			16,348	2,090	33,498	1,236	53,172	12.00

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B 14. Recreation Faciliti	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 14002202 06. Fence (6' Wooden)

This item entails all plant, labor, equipment, and materials necessary for construction of a fence. We were given the requirements of 6' height and wood construction.

Assumptions:

1. 1" x 4" boards
2. 2" x 4" rails, 3 rails deep
3. 4" x 4" posts, 8' O.C., 10' length

= 10 FBM/LF

Production:

Crew one - excavate for posts, drop posts, set posts

6,930 posts @ 10 posts/hr

Crew two - set and hang rails, hang boards

6,930 sections @ 10 sections/hr

USR PM 6' wood fence (p this includes ex 55440 LF CPLBM4 wood posts, drop posts, set posts @ 10 posts/hr posts are assumed to be 8' O.C.)		0.96	0.08	0.00	0.00	1.04
	79.20	53,236	4,284	0	0	57,520 1.04
USR PM 6' wood fence (p this includes se 55440 LF CPLBM3 hanging rails and boards.		1.50	0.00	0.00	0.00	1.50
	79.20	83,134	0	0	0	83,134 1.50
@ 10 - 8' long sections/hr						
USR PM small tools (5% 1.00 LS		0.00	6818.00	0.00	0.00	6818.00
	0.00	0	6,818	0	0	6,818 6818.00
USR PM wood (10 FBM/lf) 554400 LF		0.00	0.00	0.53	0.00	0.53
	0.00	0	0	293,388	0	293,388 0.53
USR PM concrete 1.00 LS		0.00	0.00	124200.00	0.00	124200.00
	0.00	0	0	124,200	0	124,200 124200.00
USR PM safety & misc 1.00 LS		0.00	0.00	0.00	2645.67	2645.67
	0.00	0	0	0	2,646	2,646 2645.67
Fence (6' Wooden) 55440 LF		136,369	11,102	417,588	2,646	567,706 10.24
Recreation Facil		155,388	14,270	453,031	104,348	727,037

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B 29. Project Cooperation QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

B 29. Project Cooperation Agreements

USR	Project Cooperat	0.00	0.00	0.00	1700.00	1700.00
	1.00 LS	0.00	0	0	1,700	1,700
		-----	-----	-----	-----	-----
	Project Cooperat	0	0	0	1,700	1,700

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B 30. Engineering and Des QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

B 30. Engineering and Design

USR	Engineering and		0.00	2000000.00	0.00	504000.00	2504000.00
		1.00 LS	0.00	0 2,000,000	0	504,000	2,504,000
				-----	-----	-----	-----
	Engineering and		0	2,000,000	0	504,000	2,504,000

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B 31. Construction Manage	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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B 31. Construction Management

USR	Construction Man			0.00	2000000.00	0.00	649000.00	2649000.00		
		1.00 LS		0.00	0	2,000,000	0	649,000	2,649,000	2649000
	Construction Man				0	2,000,000	0	649,000	2,649,000	
	Jones Creek				2,236,434	5,519,034	3,954,958	22,968,175	34,678,601	

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C. Beaver Bayou

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C 01. Lands and Damages QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

C. Beaver Bayou

C 01. Lands and Damages

USR	Lands and Damage	0.00	1000000.00	0.00	512590.00	1512590.00
	1.00 LS	0.00	0 1,000,000	0	512,590	1,512,590
	Lands and Damage		0 1,000,000	0	512,590	1,512,590

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C. Beaver Bayou

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C 02. Relocations	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 02. Relocations										
USR	Relocations			0.00	1000000.00	0.00	682240.00	1682240.00		
		1.00 LS		0.00	0	1,000,000	0	682,240	1,682,240	1682240
<hr/>										
Relocations										
				0	1,000,000	0	682,240	1,682,240		

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C 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
C 06. Fish & Wildlife Facilities										
C 06037102 01. Fencing - barbed wire										
This item will include cost to do the following work:										
Fencing the selected mitigation site.										
The fence will consist of poles spaced appropriately with 4 strands of barb-wire.										
<hr/>										
USR PM Fencing		1st site		7121 lf						
	7121.00 LF	TRACTOR1	17.00		1.98	0.36	0.00	0.00	2.34	
				14,104		2,564	0	0	16,668	2.34
USR PM Fence post					0.00	0.00	1.62	0.00	1.62	
	7121.00 LF		0.00		0	0	11,536	0	11,536	1.62
USR PM Barbed wire - 4					0.00	0.00	0.03	0.00	0.03	
	28484 LF		0.00		0	0	923	0	923	0.03
USR PM safety & misc					0.00	0.00	0.00	1920.78	1920.78	
	1.00 LS		0.00		0	0	0	1,921	1,921	1920.78
<hr/>										
Fencing - barbed	7121.00 LF				14,104	2,564	12,459	1,921	31,048	4.36

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C 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 123 acre

USR PM planting trees				42.09	7.65	0.00	0.00	49.74	
	123.00 AC	TRACTOR1	0.80	5,177	941	0	0	6,118	49.74
USR PM seedlings (300				0.00	0.00	0.16	0.00	0.16	
	36900 EA		0.00	0	0	5,978	0	5,978	0.16
USR PM safety & misc				0.00	0.00	0.00	819.29	819.29	
	1.00 LS		0.00	0	0	0	819	819	81
USR PM Land preparation				0.00	0.00	0.00	15.00	15.00	
	123.00 AC		0.00	0	0	0	1,845	1,845	15.00
Planting Trees	123.00 AC			5,177	941	5,978	2,664	14,760	120.00
Fish & Wildlife				19,281	3,505	18,437	4,585	45,808	

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09. Channels and Canals

C 09010101 01. Mob & Demob

This item will include cost to do the following work:
 mob and demob all equipment

per operation:

mob	1 day
demob	1 day
SUBTOTAL	2 days

of contracts 1
 2 operations x 1 contracts = 2 operations

2 operations x 2 days/operation = 4 days + 1 day (additional) = 5 days

USR PM AIR COMPRESSOR			0.00	2.92	0.00	0.00	2.92		
	50.00 HR	AIRF	1.00	0	146	0	0	146	2.92
USR PM BACKHOE CAT 235			0.00	39.52	0.00	0.00	39.52		
	50.00 HR	BKHC	1.00	0	1,976	0	0	1,976	39.52
USR PM BACKHOE, HITACHI			0.00	14.21	0.00	0.00	14.21		
	50.00 HR	BKHI	1.00	0	711	0	0	711	14.21
USR PM chipping machine			0.00	15.00	0.00	0.00	15.00		
	50.00 HR	CHIPPER	1.00	0	750	0	0	750	15.00
USR PM chainsaw, Homeli			0.00	0.17	0.00	0.00	0.17		
	100.00 HR	CHNSAW	1.00	0	17	0	0	17	0.17
USR PM CHERRYPICKER GRO			0.00	13.53	0.00	0.00	13.53		
	50.00 HR	CHYA	1.00	0	677	0	0	677	13.53
USR PM sealant hot mixe			0.00	3.50	0.00	0.00	3.50		
	50.00 HR	CMLT	1.00	0	175	0	0	175	3.50
USR PM CONCRETE PAVER 2			0.00	27.97	0.00	0.00	27.97		
	50.00 HR	CNPV	1.00	0	1,399	0	0	1,399	27.97
USR PM DOZER D-4 W/BLAD			0.00	7.56	0.00	0.00	7.56		
	50.00 HR	DOZA	1.00	0	378	0	0	378	7.56
USR PM DOZER D-6 W/BLAD			0.00	13.85	0.00	0.00	13.85		
	150.00 HR	DOZB	1.00	0	2,078	0	0	2,078	13.85
USR PM F E LOADER CAT 9			0.00	13.73	0.00	0.00	13.73		
	50.00 HR	FELA	1.00	0	687	0	0	687	13.73
USR PM MOTOR GRADER CAT			0.00	13.17	0.00	0.00	13.17		
	50.00 HR	MOTG	1.00	0	659	0	0	659	13.17

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09011502 02. Excavation

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the canal.
2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.

Center of gravity for Main channel is near Beaver Bayou & Hwy 3034.

USR PM safety & misc				0.00	0.00	0.00	90935.30	90935.30	
	1.00	LS		0.00	0	0	90,935	90,935	90935.30
USR PM all other operat				0.00	31492.00	0.00	0.00	31492.00	
	1.00	LS		0.00	0	31,492	0	31,492	31492.00
USR PM small tools				0.00	34542.00	0.00	0.00	34542.00	
	1.00	LS		0.00	0	34,542	0	34,542	34542.00
USR PM haul roads (10%)				0.00	0.00	0.00	230637.00	230637.00	
	1.00	LS		0.00	0	0	230,637	230,637	230637.00
USR PM BACKHOE CAT 235				0.00	68.78	0.00	0.00	68.78	
	2172.00	HR BKHC		1.00	0	149,390	0	149,390	68.78
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01	
	3258.00	HR DOZB		1.00	0	104,289	0	104,289	32.01
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00	
	45612	HR TRKH		1.00	0	1,277,136	0	1,277,136	28.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02	
	1086.00	HR TRKA		1.00	0	17,398	0	17,398	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29	
	1086.00	HR MOTG		1.00	0	26,379	0	26,379	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50	
	2172.00	HR OILM		1.00	35,842	0	0	35,842	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	
	45612	HR TRKM		1.00	798,210	0	0	798,210	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84	
	2172.00	HR PEOM		1.00	56,124	0	0	56,124	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84	
	3258.00	HR PEOM		1.00	84,186	0	0	84,186	25.84

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
	1086.00	HR	PEOM	1.00	28,062	0	0	0	28,062	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	
	1086.00	HR	TRKM	1.00	19,005	0	0	0	19,005	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	4344.00	HR	LABM	1.00	72,415	0	0	0	72,415	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
	2172.00	HR	FOREMAN3	1.00	57,558	0	0	0	57,558	26.50
Excavation	695000	CY		1,151,402	1,640,625		0	321,572	3,113,600	4.48

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013002 01. Geotextile Mat Turf Reinforcement										
The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the Comite River and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.										
USR PM Turf reinforcement				0.27	0.05	0.00	0.00	0.00	0.32	
	545100 SY	CHYPK2		500.00	147,930	28,672	0	0	176,602	0.32
USR PM geotextile				0.00	0.00	4.10	0.00	0.00	4.10	
	545100 SY			0.00	0	0	2,237,090	0	2,237,090	4.10
USR PM pins				0.00	0.00	0.32	0.00	0.00	0.32	
	545100 SY			0.00	0	0	176,612	0	176,612	0.32
USR PM safety & misc				0.00	0.00	0.00	26175.00	26175.00	26175.00	
	1.00 LS			0.00	0	0	0	26,175	26,175	26175.00
Geotextile Mat T	545100 SY			147,930	28,672	2,413,703	26,175	2,616,480		

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
C 09013002 02. R-90 Stone										
<p>This item will include cost to furnish and place the stone only. Provision for a railroad spur will be required for offloading the rock. The nearest location is in the vicinity of Denham Springs, La. The rock will be offloaded by backhoes into trucks. The trucks will stockpile the material in the vicinity of Wax Road and Beaver Bayou. When required, the material will be trucked to the placement location where it will dump into a box. A dragline will then place the stone into the section.</p>										
USR PM rip-rap:by train				0.93	1.11	0.00	0.00	0.00	2.04	
This item is for stone that isOCK1 delivered by train, offloaded into trucks by backhoe, and hauled to a temporary stockpile area.	225.00			120,947	144,545	0	0	265,492		2.04
USR PM rip-rap:load fr				0.89	0.91	0.00	0.00	0.00	1.81	
This item is for loading stoneOCK2 from a stockpile by backhoe and hauling to the site. There it will be placed by a dragline with a rock box.	225.00			115,925	119,090	0	0	235,014		1.81
USR PM safety & misc				0.00	0.00	0.00	20665.00	20665.00		
1.00 LS	0.00			0	0	0	20,665	20,665	20665.00	
USR PM stone - material				0.00	0.00	3.51	0.00	0.00	3.51	
130200 TON	0.00			0	0	457,002	0	457,002		3.51
USR PM stone - delivery				0.00	0.00	0.00	7.00	7.00		
130200 TON	0.00			0	0	0	911,400	911,400		7.00
USR PM rail spur				0.00	0.00	0.00	25000.00	25000.00		
1.00 LS	0.00			0	0	0	25,000	25,000	25000.00	
USR PM small tools				0.00	7111.00	0.00	0.00	0.00	7111.00	
1.00 LS	0.00			0	7,111	0	0	0	7,111	7111.00
USR PM all other operat				0.00	5276.00	0.00	0.00	0.00	5276.00	
1.00 LS	0.00			0	5,276	0	0	0	5,276	5276.00
<hr/>										
R-90 Stone	130200 TN			236,872	276,022	457,002	957,065	1,926,960		14.80

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09013002 03. Hydromulch

This item includes the cost to do the following work:

Place hydromulch over the turf reinforcement.

USR PM hydro mulching				0.04	0.02	0.13	0.00	0.19		
	322400 SY	MULCH1	450.00	11,943	7,164	41,783	0	60,891	0.19	
USR PM safety & misc				0.00	0.00	0.00	3589.00	3589.00		
	1.00 LS		0.00	0	0	0	3,589	3,589	3589.00	
Hydromulch		322400 SY		11,943	7,164	41,783	3,589	64,480	0.20	

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 09013002 04. Excavation for stone										
Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.										
Assumption:										
1. Truck access is available on either side of the canal.										
Center of gravity for Main channel is near Beaver Bayou & Hwy 3034.										
USR PM safety & misc				0.00	0.00	0.00	14603.00	14603.00		
	1.00	LS		0.00	0	0	0	14,603	14,603	14603.00
USR PM all other operat				0.00	5249.00	0.00	0.00	5249.00		
	1.00	LS		0.00	0	5,249	0	0	5,249	5249.00
USR PM small tools				0.00	5757.00	0.00	0.00	5757.00		
	1.00	LS		0.00	0	5,757	0	0	5,757	5757.00
USR PM haul roads (10%)				0.00	0.00	0.00	38395.00	38395.00		
	1.00	LS		0.00	0	0	0	38,395	38,395	38395.00
USR PM BACKHOE CAT 235				0.00	68.78	0.00	0.00	68.78		
	362.00	HR	BKHC	1.00	0	24,898	0	0	24,898	68.78
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01		
	543.00	HR	DOZB	1.00	0	17,381	0	0	17,381	32.01
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00		
	7602.00	HR	TRKH	1.00	0	212,856	0	0	212,856	28.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02		
	181.00	HR	TRKA	1.00	0	2,900	0	0	2,900	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29		
	181.00	HR	MOTG	1.00	0	4,396	0	0	4,396	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50		
	362.00	HR	OILM	1.00	5,974	0	0	0	5,974	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50		
	7602.00	HR	TRKM	1.00	133,035	0	0	0	133,035	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84		
	362.00	HR	PEOM	1.00	9,354	0	0	0	9,354	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84		
	543.00	HR	PEOM	1.00	14,031	0	0	0	14,031	25.84
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	25.84		
	181.00	HR	PEOM	1.00	4,677	0	0	0	4,677	25.84

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	181.00	HR	TRKM	1.00	3,168	0	0	0	3,168	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	724.00	HR	LABM	1.00	12,069	0	0	0	12,069	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	362.00	HR	FOREMAN3	1.00	9,593	0	0	0	9,593	26.50
Excavation for # 115700 CY					191,900	273,438		52,998	518,336	4.48

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09013002 05. Fuseplug Dams

This item will include cost to do the following work:

Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.

total length of all work: 85,600 LF

Quantity: 65,600 lf / 2,000 lf/dam = 32.8 dams

32.8 dams * 2(replacement factor) = 66 dams; SAY 65 dams

Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss
 => approx. 40 cy/dam; 65 dams * 40 cy/dam = 2600 cy

Estimated time: 1 dam per day

USR PM construct dams			6.46	9.23	0.00	0.00	15.69
	2600.00 CY	BKH002	4.00	16,796	23,998	0	40,794
USR PM culvert			0.00	0.00	1080.00	0.00	1080.00
	6.00 EA		0.00	0	0	6,480	6,480
USR PM breaching dams			0.00	0.00	0.00	400.00	400.00
	32.00 EA		0.00	0	0	12,800	12,800
USR PM safety & misc			0.00	0.00	0.00	2326.19	2326.19
	1.00 LS		0.00	0	0	2,326	2,326
<hr/>							
Fuseplug Dams			16,796	23,998	6,480	15,126	62,400

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C 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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C 09019906 01. Aesthetic Tree Planting

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
 5 gallon, 2 year crop

10 cypress - \$6 ea
 5 drake elm - \$14 ea
 5 swamp red maple - \$6 ea
 10 sweet gum - \$6 ea
 25 water oak - \$6 ea
 30 willow oak - \$6 ea
 5 crepe myrtle - \$8 ea
 10 flash pine - \$11 ea

 WEIGHTED COST: \$7/tree

USR PM tree planting -				3.69	0.47	0.00	0.00	4.16	
	4500.00 EA	TREE01B	30.00	16,602	2,123	0	0	18,725	4.16
USR PM small tools(5% o				0.00	830.00	0.00	0.00	830.00	
	1.00 LS		0.00	0	830	0	0	830	830.00
USR PM trees				0.00	0.00	7.56	0.00	7.56	
	4500.00 EA		0.00	0	0	34,020	0	34,020	7.56
USR PM safety & misc				0.00	0.00	0.00	425.00	425.00	
	1.00 LS		0.00	0	0	0	425	425	425.00
Aesthetic Tree P	4500.00 EA			16,602	2,953	34,020	425	54,000	12.00
Channels and Can				2,375,143	2,783,073	2,952,988	1,459,451	9,570,656	

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C 29. Project Cooperation QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

C 29. Project Cooperation Agreements

USR	Project Cooperat		0.00	. 0.00	0.00	4100.00	4100.00
	1.00 LS	0.00	0	0	0	4,100	4,100
			-----	-----	-----	-----	-----
	Project Cooperat		0	0	0	4,100	4,100

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C 30. Engineering and Des		QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
C 30. Engineering and Design											
USR	Engineering and				0.00	1000000.00		0.00	250000.00	1250000.00	
		1.00	LS		0.00	0	1,000,000	0	250,000	1,250,000	1250000
<hr/>											
Engineering and					0	1,000,000		0	250,000	1,250,000	

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C 31. Construction Manage QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

C 31. Construction Management

USR	Construction Man		0.00	0.00	0.00	583000.00	583000.00
		1.00 LS	0.00	0	0	583,000	583,000 583000.00
	Construction Man			0	0	583,000	583,000
	Beaver Bayou		2,394,424	5,786,578	2,971,425	3,495,966	14,648,393

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DETAIL PAGE 8C

D Cl. Lands & Damages	QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPPNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
D. Blackwater Bayou								
D Cl. Lands & Damages								
USR Lands and Damage		0.00	1000000.00	0.00	476000.00	1476000.00		
	1.00 LS	0.00	0	1,000,000	0	476,000	1,476,000	1476000
<hr/>								
Lands & Damages		0	1.000.000	0	476.000	1.476.000		

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D 02. Relocations		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>											
D 02. Relocations											
USR	Relocations				0.00	1000000.00	0.00	675680.00	1675680.00		
		1.00 LS			0.00	0	1,000,000	0	675,680	1,675,680	1675680
<hr/>											
Relocations					0	1,000,000	0	675,680	1,675,680		

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D 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 06. Fish & Wildlife Facilities

D 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of wire.

1st site 6203 lf

USR PM Fencing				1.98	0.36	0.00	0.00	2.34	
	6203.00 LF	TRACTOR1	17.00	12,286	2,233	0	0	14,519	2.34
USR PM Fence post				0.00	0.00	1.62	0.00	1.62	
	6203.00 LF		0.00	0	0	10,049	0	10,049	1.62
USR PM Barbed wire - 4				0.00	0.00	0.03	0.00	0.03	
	24812 LF		0.00	0	0	804	0	804	
USR PM safety & misc				0.00	0.00	0.00	1673.17	1673.17	
	1.00 LS		0.00	0	0	0	1,673	1,673	1673.17
<hr/>				12,286	2,233	10,853	1,673	27,045	4.36
Fencing - barbed 6203.00 LF									

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D 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 107 acre

USR PM planting trees				42.09	7.65	0.00	0.00	49.74	
	107.00 AC	TRACTOR1	0.80	4,504	819	0	0	5,322	49.74
USR PM seedlings (300)				0.00	0.00	0.16	0.00	0.16	
	32100 EA		0.00	0	0	5,200	0	5,200	0.16
USR PM safety & misc				0.00	0.00	0.00	712.71	712.71	
	1.00 LS		0.00	0	0	0	713	713	712.71
USR PM Land preparation				0.00	0.00	0.00	15.00	15.00	
	107.00 AC		0.00	0	0	0	1,605	1,605	15.00
Planting Trees	107.00 AC			4,504	819	5,200	2,318	12,840	120.00
Fish & Wildlife				16,790	3,052	16,053	3,991	39,885	

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09. Channels and Canals

D 09010101 01. Mob & Demob

This item will include cost to do the following work:
mob and demob all equipment

1 operation

mob	1 day
demob	1 day
subtotal	2 days

of contracts 1

2 operation x 1 contracts = 2 operations

2 operations x 2 wd / operation = 4 days + 2 days (additional) = 6 wd

USR PM BACKHOE CAT 235				0.00	39.52	0.00	0.00	39.52	
	120.00 HR	BKHC	1.00	0	4,742	0	0	4,742	39.52
USR PM chipping machine				0.00	15.00	0.00	0.00	15.00	
	60.00 HR	CHIPPER	1.00	0	900	0	0	900	15.00
USR PM chainsaw, Homeli				0.00	0.17	0.00	0.00	0.17	
	120.00 HR	CHNSAW	1.00	0	20	0	0	20	0.17
USR PM CHERRYPICKER GRO				0.00	13.53	0.00	0.00	13.53	
	60.00 HR	CHYA	1.00	0	812	0	0	812	13.53
USR PM DOZER D-6 W/BLAD				0.00	13.85	0.00	0.00	13.85	
	180.00 HR	DOZB	1.00	0	2,493	0	0	2,493	13.85
USR PM F E LOADER CAT 9				0.00	13.73	0.00	0.00	13.73	
	60.00 HR	FELA	1.00	0	824	0	0	824	13.73
USR PM WATER TRUCK 2000				0.00	5.97	0.00	0.00	5.97	
	60.00 HR	TRKA	1.00	0	358	0	0	358	5.97
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	26.50	
	240.00 HR	FOREMAN3	1.00	6,360	0	0	0	6,360	26.50
USR PM LABORER				16.67	0.00	0.00	0.00	16.67	
	420.00 HR	LABM	1.00	7,001	0	0	0	7,001	16
USR PM PEO-ALL EXCPT DR				25.84	0.00	0.00	0.00	25.84	
	660.00 HR	PEOM	1.00	17,054	0	0	0	17,054	25.84
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	
	840.00 HR	TRKM	1.00	14,700	0	0	0	14,700	17.50
USR PM trailering				0.00	0.00	0.00	1500.00	1500.00	
	22.00 EA			0.00	0	0	33,000	33,000	1500.00

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East Baton Rouge Parish Feasibility Study
D. Blackwater Bayou

D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM safety & misc				-1.09	0.00	0.00	6573.00	6571.91		
	1.00	LS		0.00	-1	0	0	6,573	6,572	6571.91
USR PM BACKHOE, HITACHI				0.00	14.21	0.00	0.00	14.21		
	60.00	HR	BKHI	1.00	0	853	0	0	853	14.21
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00		
	840.00	HR	TRKH	1.00	0	23,520	0	0	23,520	28.00
USR PM MOTOR GRADER CAT				0.00	13.17	0.00	0.00	13.17		
	60.00	HR	MOTG	1.00	0	790	0	0	790	13.17
Mob & Demob				45,115	35,312	0	39,573	120,000		

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D 29. CHANNELS AND CANALS QUANTITY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

D 09011502 01. Clearing for Channel Dredging

This item will include all cost to clear and grub the:

1. channel right of way
 2. access right of way

Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.

USR PM Clearing w/D-6,F			1373.60	921.40	0.00	0.00	2295.00		
	164.00 AC	CLEARING2	0.10	225,270	151,110	0	0	376,379	2295.00
USR PM Grubbing w/ Cat			1040.19	1257.90	0.00	0.00	2298.09		
	164.00 AC	GRUBBING1	0.10	170,591	206,296	0	0	376,887	2298.09
USR PM safety & misc			0.00	0.00	0.00	20813.90	20813.90		
	1.00 LS		0.00	0	0	20,814	20,814	20813.90	
-----	-----	-----	-----	-----	-----	-----	-----		
Clearing for Cha	164.00 AC		395,861	357,405	0	20,814	774,080	472	

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09011502 02. Excavation

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the canal.
2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.

Center of gravity for Main channel is near Blackwater Road and Blackwater Bayou.

USR PM safety & misc				0.00	0.00	0.00	45274.00	45274.00	
	1.00 LS			0.00	0	0	45,274	45,274	45274.00
USR PM all other operat				0.00	21063.00	0.00	0.00	21063.00	
	1.00 LS			0.00	0	21,063	0	21,063	21063.00
USR PM small tools				0.00	24347.00	0.00	0.00	24347.00	
	1.00 LS			0.00	0	24,347	0	24,347	24347.00
USR PM haul roads (10%)				0.00	0.00	0.00	156430.00	156430.00	
	1.00 LS			0.00	0	0	156,430	156,430	156430.00
USR PM BACKHOE CAT 235				0.00	68.78	0.00	0.00	68.78	
	1991.00 HR BKHC			1.00	0	136,941	0	136,941	68.78
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01	
	2986.50 HR DOZB			1.00	0	95,598	0	95,598	32.01
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00	
	27874 HR TRKH			1.00	0	780,472	0	780,472	28.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02	
	995.50 HR TRKA			1.00	0	15,948	0	15,948	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29	
	995.50 HR MOTG			1.00	0	24,181	0	24,181	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50	
	1991.00 HR OILM			1.00	32,855	0	0	32,855	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	
	27874 HR TRKM			1.00	487,795	0	0	487,795	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84	
	1991.00 HR PEOM			1.00	51,447	0	0	51,447	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84	
	2986.50 HR PEOM			1.00	77,170	0	0	77,170	25.84

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
	995.50	HR	PEOM	1.00	25,723	0	0	0	25,723	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	
	995.50	HR	TRKM	1.00	17,421	0	0	0	17,421	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	3982.00	HR	LABM	1.00	66,381	0	0	0	66,381	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
	1991.00	HR	FOREMAN3	1.00	52,762	0	0	0	52,762	26.50
Excavation	517600	CY		811,554	1,098,549	0	201,704	2,111,808		4.08

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D 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

D 09013002 Cl. Geotextile Mat Turf Reinforcement

The geotextile mat will be laid out once the channel is cut to grade. Channel excavation is expected to begin at the Comite River and continue upstream. The fabric will be anchored by stone on the bottom of the channel. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 02. R-90 Stone

This item will include cost to furnish and place the stone only. Provision for a railroad spur will be required for offloading the rock. The nearest location is in the vicinity of Denham Springs, La. The rock will be offloaded by backhoes into trucks. The trucks will stockpile the material in the vicinity of Hooper Road and Blackwater Bayou. When required, the material will be trucked to the placement location where it will dump into a box. A dragline will then place the stone into the section.

USR PM rip-rap:by train				1.01	1.23	0.00	0.00	2.24	
This item is for stone that isOCK1A delivered by train, offloaded into trucks by backhoe, and hauled to a temporary stockpile area.		225.00		138,725	170,131	0	0	308,856	2.24
USR PM rip-rap:load fr				1.05	1.16	0.00	0.00	2.21	
This item is for loading stoneOCK2A from a stockpile by backhoe and hauling to the site. There it will be placed by a dragline with a rock box.		225.00		144,127	160,338	0	0	304,465	2.21
USR PM safety & misc				0.00	0.00	0.00	47997.70	47997.70	
1.00 LS		0.00		0	0	0	47,998	47,998	47997.70
USR PM stone - material				0.00	0.00	3.51	0.00	3.51	
137800 TON		0.00		0	0	483,678	0	483,678	3.51
USR PM stone - delivery				0.00	0.00	0.00	7.00	7.00	
137800 TON		0.00		0	0	0	964,600	964,600	7.00
USR PM rail spur				0.00	0.00	0.00	25000.00	25000.00	
1.00 LS		0.00		0	0	0	25,000	25,000	25000.00
USR PM small tools				0.00	8480.00	0.00	0.00	8480.00	
1.00 LS		0.00		0	8,480	0	0	8,480	8480.00
USR PM all other operat				0.00	6604.00	0.00	0.00	6604.00	
1.00 LS		0.00		0	6,604	0	0	6,604	6604.00
R-90 Stone	137800 TN			282,852	345,553	483,678	1,037,598	2,149,680	15.60

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 03. Hydromulch

This item includes the cost to do the following work:

Place hydromulch over the turf reinforcement.

USR PM hydro mulching				0.04	0.02	0.13	0.00	0.19		
	551500 SY	MULCH1	450.00	20,430	12,256	71,474	0	104,160	0.19	
USR PM safety & misc				0.00	0.00	0.00	6139.79	6139.79		
	1.00 LS		0.00	0	0	0	6,140	6,140	6139.79	
Hydromulch	551500 SY			20,430	12,256	71,474	6,140	110,300	0.20	

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D 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 04. Excavation for stone

Excavated material will be hauled to Devil's Swamp. A dozer will be used full time at the excavation site and 50% of the time at the disposal site.

Assumption:

1. Truck access is available on either side of the bayou.

2. Trucks will enter the worksite from the lower end and exit from the upper end or vice-versa.

Center of gravity for Main channel is near Blackwater Rd. and Blackwater Bayou.

USR PM safety & misc				0.00	0.00	0.00	12281.70	12281.70	
	1.00	LS		0.00	0	0	12,282	12,282	12281.70
USR PM all other operat				0.00	5755.00	0.00	0.00	5755.00	
	1.00	LS		0.00	0	5,755	0	5,755	5755.00
USR PM small tools				0.00	6652.00	0.00	0.00	6652.00	
	1.00	LS		0.00	0	6,652	0	6,652	6652.00
USR PM haul roads (10%)				0.00	0.00	0.00	42734.00	42734.00	
	1.00	LS		0.00	0	0	42,734	42,734	42734.00
USR PM BACKHOE CAT 235				0.00	68.78	0.00	0.00	68.78	
	544.00	HR BKHC		1.00	0	37,416	0	37,416	68.78
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01	
	816.00	HR DOZB		1.00	0	26,120	0	26,120	32.01
USR PM trailer truck, 2				0.00	28.00	0.00	0.00	28.00	
	7616.00	HR TRKH		1.00	0	213,248	0	213,248	28.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02	
	272.00	HR TRKA		1.00	0	4,357	0	4,357	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29	
	272.00	HR MOTG		1.00	0	6,607	0	6,607	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50	
	544.00	HR OILM		1.00	8,977	0	0	8,977	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	
	7616.00	HR TRKM		1.00	133,280	0	0	133,280	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84	
	544.00	HR PEOM		1.00	14,057	0	0	14,057	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84	
	816.00	HR PEOM		1.00	21,085	0	0	21,085	25.84

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
	272.00	HR	PEOM	1.00	7,028	0	0	0	7,028	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	
	272.00	HR	TRKM	1.00	4,760	0	0	0	4,760	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	1088.00	HR	LABM	1.00	18,137	0	0	0	18,137	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
	544.00	HR	FOREMAN3	1.00	14,416	0	0	0	14,416	26.50
Excavation for s	141400	CY		221,741	300,156	0	55,016	576,912		4.08

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09013002 05. Fuseplug Dams

This item will include cost to do the following work:

Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.

total length of all work: 81,700 LF

Quantity: 81,700 lf / 2,000 lf/dam = 40.8 dams

40.8 dams * 2(replacement factor) = 82 dams; SAY 85 dams

Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss

=> approx. 40 cy/dam; 85 dams * 40 cy/dam = 3400 cy

Estimated time: 1 dam per day

USR PM construct dams			6.46	9.23	0.00	0.00	15.69	
	3400.00 CY	BKH002	4.00	21,964	31,382	0	0	53,346 15.69
USR PM culvert			0.00	0.00	1080.00	0.00	1080.00	
	6.00 EA		0.00	0	6,480	0	6,480	1080.00
USR PM breaching dams			0.00	0.00	0.00	400.00	400.00	
	40.00 EA		0.00	0	0	16,000	16,000	400.00
USR PM safety & misc			0.25	0.00	0.00	5774.00	5774.25	
	1.00 LS		0.00	0	0	5,774	5,774	5774.25
<hr/>								
Fuseplug Dams			21,964	31,382	6,480	21,774	81,600	

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D 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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D 09019906 01. Aesthetic Tree Planting

This item is for all equipment, labor, and materials required to plant trees. 4 laborers will be used to plant trees. A flatbed truck will be used to haul trees to planting sites.

Note: Cost for trees based on assumptions of the following trees
5 gallon, 2 year crop

10 cypress - \$6 ea
5 drake elm - \$14 ea
5 swamp red maple - \$6 ea
10 sweet gum - \$6 ea
25 water oak - \$6 ea
30 willow oak - \$6 ea
5 crepe myrtle - \$8 ea
10 flash pine - \$11 ea

WEIGHTED COST: \$7/tree

USR PM tree planting -				3.69	0.47	0.00	0.00	4.16	
	5700.00 EA	TREE01B	30.00	21,029	2,689	0	0	23,718	4.16
USR PM small tools(5% o				0.00	1051.00	0.00	0.00	1051.00	
	1.00 LS		0.00	0	1,051	0	0	1,051	1051.00
USR PM trees				0.00	0.00	7.56	0.00	7.56	
	5700.00 EA		0.00	0	0	43,092	0	43,092	7.56
USR PM safety & misc				0.00	0.00	0.00	539.00	539.00	
	1.00 LS		0.00	0	0	0	539	539	539.00
Aesthetic Tree P	5700.00 EA			21,029	3,740	43,092	539	68,400	12.00
Channels and Can				2,061,261	2,231,009	4,532,360	1,425,749	10,250,380	

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D 29. Project Cooperation QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

D 29. Project Cooperation Agreements

USR	Project Cooperat	1.00 LS	0.00	0.00	0.00	4100.00	4100.00
			0.00	0	0	4,100	4,100
	Project Cooperat			0	0	4,100	4,100

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D 30. Engineering and Des QUANTY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

D 30. Engineering and Design

USR	Engineering and 1.00 LS	0.00	1000000.00	0.00	226000.00	1226000.00	
		0.00	0	1,000,000	0	226,000	1,226,000
							1226000
	Engineering and		0	1,000,000	0	226,000	1,226,000

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D 31. Construction Manage		QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR	Construction Man					0.00	0.00	0.00	708000.00	708000.00	
		1.00	LS		0.00	0	0	0	708,000	708,000	708000.00
	Construction Man					0	0	0	708,000	708,000	
	Blackwater Bayou					2,078,051	5,234,061	4,548,413	3,519,520	15,380,045	

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E 01. Lands and Damages	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E. Ward Creek										
E 01. Lands and Damages										
USR Lands and Damage				0.00	0.00	0.00	122540.00	122540.00		
	1.00	LS		0.00	0	0	0	122,540	122,540	122540.00
Lands and Damage					0	0	0	122,540	122,540	

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E 06. Fish & Wildlife Fac	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 06. Fish & Wildlife Facilities

E 06037102 01. Fencing - barbed wire

This item will include cost to do the following work:

Fencing the selected mitigation site.

The fence will consist of poles spaced appropriately with 4 strands of barb-wire.

1st site 1838 lf

USR PM Fencing				1.98	0.36	0.00	0.00	2.34	
	1838.00 LF	TRACTOR1	17.00	3,640	662	0	0	4,302	2.34
USR PM Fence post				0.00	0.00	1.62	0.00	1.62	
	1838.00 LF		0.00	0	0	2,978	0	2,978	1.62
USR PM Barbed wire - 4				0.00	0.00	0.03	0.00	0.03	
	7352.00 LF		0.00	0	0	238	0	238	0.03
USR PM safety & misc				0.00	0.00	0.00	495.77	495.77	
	1.00 LS		0.00	0	0	0	496	496	495.77
Fencing - barbed 1838.00 LF				3,640	662	3,216	496	8,014	4.36

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E 06. Fish & Wildlife Fac QUANTY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

E 06037302 01. Planting Trees

This item will include cost to do the following work:

Planting the selected mitigation site.

Planting 300 trees per acre (12' x 12') in cleared areas. Seedlings will consist of 4 species of oak (Nuttall, water, willow, cherry bark) and sweet pecan.

1st site 32 acre

USR PM planting trees			42.09	7.65	0.00	0.00	49.74
	32.00 AC	TRACTOR1	0.80	1,347	245	0	0
USR PM seedlings (300			0.00	0.00	0.16	0.00	0.16
	9600.00 EA		0.00	0	0	1,555	0
USR PM safety & misc			0.00	0.00	0.00	213.00	213.00
	1.00 LS		0.00	0	0	213	213
USR PM Land preparation			0.00	0.00	0.00	15.00	15.00
	32.00 AC		0.00	0	0	480	480
Planting Trees	32.00 AC		1,347	245	1,555	693	3,840
Fish & Wildlife			4,987	906	4,771	1,189	11,854

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E 09. Channels and Canals QUANTY UOM CREW ID OUTPUT LABOR EQUIPMNT MATERIAL SUPPLIES TOTAL COST UNIT COST

E 09. Channels and Canals

E 09010101 01. Mob & Demob

This item will include cost to do the following work:
mob and demob all equipment

1 operation

mob	1 day
demob	1 day
subtotal	2 days

of contracts 1

1 operation x 1 contracts = 1 operations

1 operations x 2 wd / operation = 2 days + 1 days (additional) = 3 wd

USR PM AIR COMPRESSOR			0.00	2.92	0.00	0.00	2.92
	30.00 HR	AIRF	1.00	0	88	0	88
USR PM BACKHOE CAT 225B			0.00	20.95	0.00	0.00	20.95
	60.00 HR	BKHB	1.00	0	1,257	0	1,257
USR PM BACKHOE CAT 235			0.00	39.52	0.00	0.00	39.52
	30.00 HR	BKHC	1.00	0	1,186	0	1,186
USR PM chipping machine			0.00	15.00	0.00	0.00	15.00
	30.00 HR	CHIPPER	1.00	0	450	0	450
USR PM chainsaw, Homeli			0.00	0.17	0.00	0.00	0.17
	60.00 HR	CHNSAW	1.00	0	10	0	10
USR PM CHERRYPICKER GRO			0.00	13.53	0.00	0.00	13.53
	30.00 HR	CHYA	1.00	0	406	0	406
USR PM sealant hot mixe			0.00	3.50	0.00	0.00	3.50
	30.00 HR	CMLT	1.00	0	105	0	105
USR PM CONCRETE PAVER 2			0.00	27.97	0.00	0.00	27.97
	30.00 HR	CNPV	1.00	0	839	0	839
USR PM DOZER D-4 W/BLAD			0.00	7.56	0.00	0.00	7.56
	30.00 HR	DOZA	1.00	0	227	0	227
USR PM DOZER D-6 W/BLAD			0.00	13.85	0.00	0.00	13.85
	150.00 HR	DOZB	1.00	0	2,078	0	2,078
USR PM F E LOADER CAT 9			0.00	13.73	0.00	0.00	13.73
	30.00 HR	FELA	1.00	0	412	0	412
USR PM MOTOR GRADER CAT			0.00	13.17	0.00	0.00	13.17
	30.00 HR	MOTG	1.00	0	395	0	395

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E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM WATER PUMP 3" HO					0.00	.0.15	0.00	0.00	0.15	
	30.00	HR	PMPC	1.00	0	5	0	0	5	0.15
USR PM trencher, chain,					0.00	1.74	0.00	0.00	1.74	
	30.00	HR	T30DW002	1.00	0	52	0	0	52	1.74
USR PM FARM TRACTOR JD					0.00	2.24	0.00	0.00	2.24	
	30.00	HR	TRCB	1.00	0	67	0	0	67	2.24
USR PM WATER TRUCK 2000					0.00	5.97	0.00	0.00	5.97	
	30.00	HR	TRKA	1.00	0	179	0	0	179	5.97
USR PM Dump truck, 12 c					0.00	22.00	0.00	0.00	22.00	
	750.00	HR	TRKI	1.00	0	16,500	0	0	16,500	22.00
USR PM CARPENTER					26.04	0.00	0.00	0.00	26.04	
	60.00	HR	CARM	1.00	1,562	0	0	0	1,562	26.04
USR PM CEMENT MASON					23.26	0.00	0.00	0.00	23.26	
	120.00	HR	CMMN	1.00	2,792	0	0	0	2,792	23.26
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	150.00	HR	FOREMAN3	1.00	3,975	0	0	0	3,975	26.50
USR PM IRONWORKER					26.18	0.00	0.00	0.00	26.18	
	30.00	HR	IRNM	1.00	786	0	0	0	786	26.18
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	120.00	HR	LABM	1.00	2,000	0	0	0	2,000	16.67
USR PM PEO-ALL EXCPT DR					25.84	0.00	0.00	0.00	25.84	
	540.00	HR	PEOM	1.00	13,953	0	0	0	13,953	25.84
USR PM TRUCK DRIVER					17.50	0.00	0.00	0.00	17.50	
	750.00	HR	TRKM	1.00	13,125	0	0	0	13,125	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	300.00	HR	LABM	1.00	5,001	0	0	0	5,001	16.67
USR PM LABORER (reinf)					16.67	0.00	0.00	0.00	16.67	
	60.00	HR	LABM	1.00	1,000	0	0	0	1,000	16.67
USR PM trailering					0.00	0.00	0.00	1500.00	1500.00	
	17.00	EA		0.00	0	0	0	25,500	25,500	1500.00
USR PM safety & misc					-0.40	0.00	0.00	26051.00	26050.60	
	1.00	LS		0.00	0	0	0	26,051	26,051	26050.60
Mob & Demob					44,194	24,255	0	51,551	120,000	

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
E 09011502 01. Clearing for Channel Dredging										
This item will include all cost to clear and grub the:										
1. channel right of way										
2. access right of way										
Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.										
USR PM Clearing w/D-6,F				1373.60	921.40	0.00	0.00	2295.00		
	20.00	AC	CLEARING2	0.10	27,472	18,428	0	0	45,900	2295.00
USR PM Grubbing w/ Cat				1040.19	1257.90	0.00	0.00	2298.09		
	20.00	AC	GRUBBING1	0.10	20,804	25,158	0	0	45,962	2298.09
USR PM safety & misc				0.00	0.00	0.00	2538.20	2538.20		
	1.00	LS		0.00	0	0	0	2,538	2,538	2538.20
Clearing for Cha	20.00	AC		48,276	43,586	0	2,538	94,400	4720.00	

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09011502 02. Excavation

A backhoe will excavate material and load into awaiting trucks. The material will be hauled to Mississippi River batters located near the intersection of Gardere Ln and River Road. A dozer will be used full time at the excavation site.

The equipment will work from the base of the channel. See construction access item for details relating to the construction access.

USR PM safety & misc				0.00	0.00	0.00	24544.60	24544.60		
	1.00	LS		0.00	0	0	24,545	24,545	24544.60	
USR PM all other operat				0.00	6907.00	0.00	0.00	6907.00		
	1.00	LS		0.00	0	6,907	0	0	6,907	6907.00
USR PM small tools				0.00	9851.00	0.00	0.00	9851.00		
	1.00	LS		0.00	0	9,851	0	0	9,851	9851.00
USR PM haul roads (10%)				0.00	0.00	0.00	57200.00	57200.00		
	1.00	LS		0.00	0	0	57,200	57,200	57200.00	
USR PM BACKHOE CAT 225B				0.00	36.92	0.00	0.00	36.92		
	681.00	HR BKHB		1.00	0	25,143	0	0	25,143	36.92
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01		
	681.00	HR DOZB		1.00	0	21,799	0	0	21,799	32.01
USR PM Dump truck, 12 c				0.00	22.00	0.00	0.00	22.00		
	12939	HR TRKI		1.00	0	284,658	0	0	284,658	22.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02		
	340.50	HR TRKA		1.00	0	5,455	0	0	5,455	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29		
	340.50	HR MOTG		1.00	0	8,271	0	0	8,271	24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50		
	681.00	HR OILM		1.00	11,238	0	0	11,238	16.50	
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50		
	12939	HR TRKM		1.00	226,433	0	0	226,433	17.50	
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84		
	681.00	HR PEOM		1.00	17,597	0	0	17,597	25.84	
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84		
	681.00	HR PEOM		1.00	17,597	0	0	17,597	25.84	
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	25.84		
	340.50	HR PEOM		1.00	8,798	0	0	8,798	25.84	

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM TRUCK DRIVER - W				17.50	0.00	0.00	0.00	0.00	17.50	
	340.50	HR	TRKM	1.00	5,959	0	0	0	5,959	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
	681.00	HR	LABM	1.00	11,352	0	0	0	11,352	16.67
USR PM flagmen				16.67	0.00	0.00	0.00	0.00	16.67	
	681.00	HR	LABM	1.00	11,352	0	0	0	11,352	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
	681.00	HR	FOREMAN3	1.00	18,047	0	0	0	18,047	26.50
Excavation	143000	CY		328,373	362,083		0	81,745	772,200	5.40

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
E 09011502 03. Clearing and Snagging										
This item will include all cost to clear and snag the:										
1. channel right of way										
Because the burning of clearing debris is not allowed, and there was no indication of what to do with the debris, we assumed the debris would be chipped. The chipped material will be disposed of properly.										
Some areas will have to be cleared so that access will be allowed for the excavator.										
USR PM Clearing w/ D-6,				1206.89	906.70	0.00	-0.06	2113.53		
13.00 AC	CLEARING1		0.10	15,690	11,787	0	-1	27,476	2113.53	
USR PM Snagging w/ 235,				6034.47	6372.00	0.00	0.00	12406.47		
13.00 MI	SNAGGING1		0.02	78,448	82,836	0	0	161,284	12406.47	
USR PM safety & misc				0.00	0.00	0.00	8840.00	8840.00		
1.00 LS			0.00	0	0	0	8,840	8,840	8840.00	
<hr/>										
Clearing and Sna	13.00 MI			94,138	94,623	0	8,839	197,600	15200.00	

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
E 09013002 01. sand (8" thick)										
This item will include all cost to place material such that the design template for the concrete slope pavement will be filled. A backhoe will load the material into the haul trucks. The trucks will dump material and a dozer will spread and shape the material. The sand blanket will be placed under the 6" concrete.										
ASSUMPTIONS:										
1. Sand is available for borrow in the vicinity of Gardere Rd. and the Mississippi River. It is assumed to be pumped from the river.										
USR PM safety & misc				0.98	0.08	0.00	4952.00	4953.06		
	1.00	LS		0.00	1	0	0	4,952	4,953	4953.06
USR PM all other operat				0.00	829.00	0.00	0.00	0.00	829.00	
	1.00	LS		0.00	0	829	0	0	829	829.00
USR PM small tools				0.00	1134.00	0.00	0.00	0.00	1134.00	
	1.00	LS		0.00	0	1,134	0	0	1,134	1134.00
USR PM sand material				0.00	0.00	0.00	1.25	1.25		
	13200	CY		0.00	0	0	0	16,500	16,500	1.25
USR PM haul roads (10%)				0.00	0.00	0.00	8213.00	8213.00		
	1.00	LS		0.00	0	0	0	8,213	8,213	8213.00
USR PM BACKHOE CAT 225B				0.00	36.92	0.00	0.00	0.00	36.92	
	63.00	HR BKHB		1.00	0	2,326	0	0	2,326	36.92
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	0.00	32.01	
	94.50	HR DOZB		1.00	0	3,025	0	0	3,025	32.01
USR PM DUMP TRUCK 12 C				0.00	22.11	0.00	0.00	0.00	22.11	
	1575.00	HR TRKE		1.00	0	34,823	0	0	34,823	22.11
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	0.00	16.02	
	31.50	HR TRKA		1.00	0	505	0	0	505	16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	0.00	24.29	
	31.50	HR MOTG		1.00	0	765	0	0	765	24.29
USR PM OILER				16.50	0.00	0.00	0.00	0.00	16.50	
	63.00	HR OILM		1.00	1,040	0	0	0	1,040	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	0.00	17.50	
	1575.00	HR TRKM		1.00	27,563	0	0	0	27,563	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	0.00	25.84	
	63.00	HR PEOM		1.00	1,628	0	0	0	1,628	25.84

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	94.50	HR	PEOM	1.00	2,442	0	0	0	2,442	25.84
USR PM PEO-motor grader					25.84	0.00	0.00	0.00	25.84	
	31.50	HR	PEOM	1.00	814	0	0	0	814	25.84
USR PM TRUCK DRIVER - w					17.50	0.00	0.00	0.00	17.50	
	31.50	HR	TRKM	1.00	551	0	0	0	551	17.50
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	63.00	HR	LABM	1.00	1,050	0	0	0	1,050	16.67
USR PM flagmen					16.67	0.00	0.00	0.00	16.67	
	63.00	HR	LABM	1.00	1,050	0	0	0	1,050	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	63.00	HR	FOREMAN3	1.00	1,670	0	0	0	1,670	26.50
sand (8" thick)	13200	CY			37,808	43,407	0	29,665	110,880	8.40

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E 09. Channels and Canals QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COT
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E 09013002 02. Filter Drain Fabric

This item will include cost to do the following work:

Once the section is at grade, the liner will be laid out. A cherry picker will assist several laborers. The liner will be placed below the area which will be covered by 6" and 8" concrete.

USR PM cherry picker, p		0.42	0.19	0.00	0.00	0.61	
59300 SY CHYPK1	140.00	25,067	11,140	0	0	36,207	0.61
USR PM drainage composi		0.00	0.00	5.35	0.00	5.35	
59300 SY	0.00	0	0	317,018	0	317,018	5.35
USR PM safety & misc		25.00	11.00	0.00	2539.45	2575.45	
1.00 LS	0.00	25	11	0	2,539	2,575	2575.45
Filter Drain Fab	59300 SY	25,092	11,151	317,018	2,539	355,800	6.00

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09013002 03. Fuseplug Dams

This item will include cost to do the following work:

Fuseplug dams will be built to contain the water while it's not raining. A backhoe will be used to build them. Each dam will be built approximately 2,000 ft in advance of the channel construction. A pump and a firehouse will be available for the occasions when the dam should be breached in order to allow the passage of high rainfall events. Material for the dams will be borrowed near the dam site. The dams will incorporate a culvert to allow low rainfall events to pass without destroying the fuseplug dam. There will be no more than 3 dams in use at any time during the construction.

total length of all work: 5,600 LF

Quantity: 5,600 lf / 2,000 lf/dam = 2.8 dams

2.8 dams * 8(replacement factor) = 24 dams

Fuseplug dimensions: 6 ft height, 4 ft crown, 1 on 1.5 ss
 -> approx. 40 cy/dam; 24 dams * 40 cy/dam = 960 cy

Estimated time: 1 dam per day

USR PM construct dams			6.46	9.23	0.00	0.00	15.69	
	960.00 CY	BKH002	4.00	6,202	8,861	0	0	15,062 15.69
USR PM culvert			0.00	0.00	1080.00	0.00	1080.00	
	4.00 EA		0.00	0	0	4,320	0	4,320 1080.00
USR PM breaching dams			0.00	0.00	0.00	400.00	400.00	
	15.00 EA		0.00	0	0	0	6,000	6,000 400.00
USR PM safety & misc			0.47	0.20	0.00	6617.00	6617.67	
	1.00 LS		0.00	0	0	0	6,617	6,618 6617.67
Fuseplug Dams			6,202	8,861	4,320	12,617	32,000	

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
<hr/>										
E 09013003 01. Cutoff wall										
This item is for all labor, equipment, and materials required to construct concrete cutoff walls in the channel wall pavement.										
Reference: Jones Creek - cutoff wall										
<hr/>										
USR PM cutoff wall				0.00	0.00	0.00	120.00	120.00	120.00	
	400.00	CY		0.00	0	0	0	48,000	48,000	120.00
<hr/>										
Cutoff wall	400.00	CY			0	0	0	48,000	48,000	120.00

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E 09. CHANNELS AND CANALS QUANTITY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

E 09013003 02. Channel Wall Pavement (4")

This item is for all labor, equipment, and materials required to construct 4" concrete channel wall pavement.

Reference: Bayou Fountain - 4" channel pavement

USR PM 4" channel wall	0.00	0.00	0.00	104.00	104.00	
8800.00 CY	0.00	0	0	915,200	915,200	104.00
Channel Wall Pay	8800.00	CY	0	915,200	915,200	104.00

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E 09. CHANNELS AND CANALS QUANTITY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

E 09013003 03. Channel Wall Pavement (6")

This item is for all labor, equipment, and materials required to construct 6" concrete channel wall pavement.

Reference: Bayou Fountain - 6" channel wall pavement

USR PM 6" channel wall	0.00	0.00	0.00	120.00	120.00	
6600.00 CY	0.00	0	0	792,000	792,000	120.00
Channel Wall Pav	6600.00 CY	0	0	792,000	792,000	120.00

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F 09. Channels and Canals QUANTITY UOM CREW ID OUTPUT LABOR EQUIPMENT MATERIAL SUPPLIES TOTAL COST UNIT COST

E 09013003 04. Channel Wall Pavement (8")

This item is for all labor, equipment, and materials required to construct 8" concrete channel wall pavement.

Reference: Bayou Fountain - 8" channel wall pavement

USR PM 8" channel wall	0.00	0.00	0.00	120.00	120.00	
4500.00 CY	0.00	0	0	540,000	540,000	120.00
Channel Wall Pav	4500.00 CY	0	0	540,000	540,000	120.00

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E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09013003 05. drain ditch

This item is for all labor, equipment, and materials to construct concrete drainage ditches along each side of the new paved creek channel.

The details are the same as 4" Channel wall pavement.

USR PM concrete paved d				0.00	0.00	0.00	104.00	104.00		
This item is the same as 4"				0.00	0	0	228,800	228,800	104.00	
channel wall pavement.										
drain ditch	2200.00	CY			0	0	0	228,800	228,800	104.00

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09019902 01. excavation

A backhoe will excavate material and load into awaiting trucks. The material will be hauled to the Mississippi River batture. A dozer will be used full time at the excavation site.

The equipment will work from the base of the channel. See Construction Access Item for details relating the construction access.

Material is expected to have a higher water content than the bulk of the excavation material which is above the bottom foot of the channel.

USR PM safety & misc				0.00	0.00	0.00	993.29	993.29	
	1.00	LS		0.00	0	0	993	993	993.29
USR PM all other operat				0.00	335.00	0.00	0.00	335.00	
	1.00	LS		0.00	0	335	0	335	335.00
USR PM small tools				0.00	490.00	0.00	0.00	490.00	
	1.00	LS		0.00	0	490	0	490	490.00
USR PM haul roads (10%)				0.00	0.00	0.00	2792.20	2792.20	
	1.00	LS		0.00	0	0	2,792	2,792	2792.20
USR PM BACKHOE CAT 225B				0.00	36.92	0.00	0.00	36.92	
	38.00	HR BKHB		1.00	0	1,403	0	0	1,403 36.92
USR PM DOZER D-6 W/BLAD				0.00	32.01	0.00	0.00	32.01	
	38.00	HR DOZB		1.00	0	1,216	0	0	1,216 32.01
USR PM Dump truck, 12 c				0.00	22.00	0.00	0.00	22.00	
	608.00	HR TRKI		1.00	0	13,376	0	0	13,376 22.00
USR PM WATER TRUCK 2000				0.00	16.02	0.00	0.00	16.02	
	19.00	HR TRKA		1.00	0	304	0	0	304 16.02
USR PM MOTOR GRADER CAT				0.00	24.29	0.00	0.00	24.29	
	19.00	HR MOTG		1.00	0	462	0	0	462 24.29
USR PM OILER				16.50	0.00	0.00	0.00	16.50	
	38.00	HR OILM		1.00	627	0	0	627	16.50
USR PM TRUCK DRIVER				17.50	0.00	0.00	0.00	17.50	
	608.00	HR TRKM		1.00	10,640	0	0	10,640	17.50
USR PM PEO-backhoe				25.84	0.00	0.00	0.00	25.84	
	38.00	HR PEOM		1.00	982	0	0	982	25.84
USR PM PEO-dozer				25.84	0.00	0.00	0.00	25.84	
	38.00	HR PEOM		1.00	982	0	0	982	25.84

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E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-motor grader				25.84	0.00	0.00	0.00	0.00	25.84	
19.00 HR	PEOM		1.00	491	0	0	0	0	491	25.84
USR PM TRUCK DRIVER - w				17.50	0.00	0.00	0.00	0.00	17.50	
19.00 HR	TRKM		1.00	333	0	0	0	0	333	17.50
USR PM LABORER				16.67	0.00	0.00	0.00	0.00	16.67	
38.00 HR	LABM		1.00	633	0	0	0	0	633	16.67
USR PM flagmen				16.67	0.00	0.00	0.00	0.00	16.67	
38.00 HR	LABM		1.00	633	0	0	0	0	633	16.67
USR PM foreman 3 \$26.5				26.50	0.00	0.00	0.00	0.00	26.50	
38.00 HR	FOREMAN3		1.00	1,007	0	0	0	0	1,007	26.50
excavation	6500.00	CY		16,328	17,586		0	3,785	37,700	5.80

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E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09019902 02. Filter Fabric

This item will include cost to do the following work:

Once the section is at grade, the fabric will be laid out. A cherry picker will assist several laborers. The fabric will be placed on the bottom width of the cross section. Crushed stone will be placed on the fabric. Once this is done, heavy equipment will be able to move in and out of the creek.

Assumption: The creek is blocked upstream during a period of no rainfall.

USR PM Turf reinforce				0.42	0.19	0.00	0.00	0.61		
	19400	SY	CHYPK1	140.00	8,201	3,644	0	0	11,845	0.61
USR PM filter fabric				0.00	0.00	1.89	0.00	1.89		
	19400	SY		0.00	0	0	36,666	0	36,666	1.89
USR PM safety & misc				25.00	12.00	0.00	5772.00	5809.00		
	1.00	LS		0.00	25	12	0	5,772	5,809	5809.00
Filter Fabric	19400	SY		8,226	3,656	36,666	5,772	54,320		2.80

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E 09. Channels and Canals QUANTY UOM CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09019902 03. Crushed stone

The filter fabric will be laid out once the channel is cut to grade. Channel excavation is expected to begin at available access sites and continue upstream. The fabric will be covered by a layer of 1 ft of stone. A cherry picker will assist a group of laborers while laying out the fabric. Fuseplug dams will be constructed ahead of the excavation in order to keep the area as dry as possible.

This item will include costs to furnish and place the stone and provision for a railroad spur which is required for offloading the rock. The nearest location is in the vicinity of Denham Springs. The rock will be offloaded by backhoes into trucks. The trucks will dump the material within the section. A dozer will spread and compact the stone.

measured quantity: 9,000 tons

**** USE 9,500 tons due to loss incurred by rainfall events during construction.

USR PM safety & misc		0.00	0.00	0.00	7483.00	7483.00	
	1.00 LS	0.00	0	0	7,483	7,483	7483.00
USR PM all other operat		0.00	411.00	0.00	0.00	411.00	
	1.00 LS	0.00	411	0	0	411	411.00
USR PM small tools		0.00	568.00	0.00	0.00	568.00	
	1.00 LS	0.00	568	0	0	568	568.00
USR PM deliver charge t		0.00	0.00	0.00	7.00	7.00	
	9500.00 TON	0.00	0	0	66,500	66,500	7.00
USR PM rail spur		0.00	0.00	0.00	25000.00	25000.00	
	1.00 LS	0.00	0	0	25,000	25,000	25000.00
USR PM stone		0.00	0.00	3.51	0.00	3.51	
	9500.00 TON	0.00	0	33,345	0	33,345	3.51
USR PM BACKHOE, HITACHI		0.00	25.79	0.00	0.00	25.79	
	53.00 HR BKHI	1.00	0	1,367	0	1,367	25.79
USR PM DOZER D-6 W/BLAD		0.00	32.01	0.00	0.00	32.01	
	53.00 HR DOZB	1.00	0	1,697	0	1,697	32.01
USR PM Dump truck, 12 c		0.00	22.00	0.00	0.00	22.00	
	795.00 HR TRKI	1.00	0	17,490	0	17,490	22.00
USR PM TRUCK DRIVER		17.50	0.00	0.00	0.00	17.50	
	795.00 HR TRKM	1.00	13,913	0	0	13,913	17.50
USR PM PEO-backhoe		25.84	0.00	0.00	0.00	25.84	
	53.00 HR PEOM	1.00	1,370	0	0	1,370	25.84

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E 09. Channels and Canals	QUANTY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
USR PM PEO-dozer					25.84	0.00	0.00	0.00	25.84	
	53.00	HR	PEOM	1.00	1,370	0	0	0	1,370	25.84
USR PM LABORER					16.67	0.00	0.00	0.00	16.67	
	53.00	HR	LABM	1.00	884	0	0	0	884	16.67
USR PM foreman 3 \$26.5					26.50	0.00	0.00	0.00	26.50	
	53.00	HR	FOREMAN3	1.00	1,405	0	0	0	1,405	26.50
Crushed stone	9000.00	TON			18,940	21,532	33,345	98,983	172,800	19.20

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E 09. Channels and Canals	QUANTITY	UOM	CREW ID	OUTPUT	LABOR	EQUIPMNT	MATERIAL	SUPPLIES	TOTAL COST	UNIT COST
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E 09019902 04. Obstruction Removal

Initially, the backhoe will pile broken concrete along the sides. Once it is all stacked, the backhoe will then load 12 cy trucks. The temporary road build at the base of the channel will allow the concrete to be picked up. The material will be hauled to Devil's Swamp. A dozer will be used full time at the obstruction site and 50% of the time at the disposal site.

The equipment will work from the base of the channel.

Assumption: 4.5 sf x 150 lb/cf x 5600 lf / 2000 lbs = 1,890 tons of concrete

USR PM safety & misc			0.60	0.00	0.00	2281.84	2282.44		
	1.00 LS		0.00	1	0	2,282	2,282	2282.44	
USR PM all other operat			0.00	373.00	0.00	0.00	373.00		
	1.00 LS		0.00	0	373	0	0	373	373.00
USR PM small tools			0.00	588.00	0.00	0.00	588.00		
	1.00 LS		0.00	0	588	0	0	588	588
USR PM haul roads (10%)			0.00	0.00	0.00	3318.00	3318.00		
	1.00 LS		0.00	0	0	0	3,318	3,318	3318.00
USR PM BACKHOE CAT 225B			0.00	36.92	0.00	0.00	36.92		
	63.00 HR BKHB		1.00	0	2,326	0	0	2,326	36.92
USR PM PEO-backhoe			25.84	0.00	0.00	0.00	25.84		
	63.00 HR PEOM		1.00	1,628	0	0	0	1,628	25.84
USR PM BACKHOE CAT 225B			0.00	36.92	0.00	0.00	36.92		
	63.00 HR BKHB		1.00	0	2,326	0	0	2,326	36.92
USR PM DOZER D-6 W/BLAD			0.00	32.01	0.00	0.00	32.01		
	94.50 HR DOZB		1.00	0	3,025	0	0	3,025	32.01
USR PM Dump truck, 12 c			0.00	22.00	0.00	0.00	22.00		
	441.00 HR TRKI		1.00	0	9,702	0	0	9,702	22.00
USR PM WATER TRUCK 2000			0.00	16.02	0.00	0.00	16.02		
	31.50 HR TRKA		1.00	0	505	0	0	505	16.02
USR PM MOTOR GRADER CAT			0.00	24.29	0.00	0.00	24.29		
	31.50 HR MOTG		1.00	0	765	0	0	765	24.29
USR PM OILER			16.50	0.00	0.00	0.00	16.50		
	63.00 HR OILM		1.00	1,040	0	0	0	1,040	16.50
USR PM TRUCK DRIVER			17.50	0.00	0.00	0.00	17.50		
	441.00 HR TRKM		1.00	7,718	0	0	0	7,718	17.50

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BACKUP PAGE 1

** LABOR BACKUP **

**** TOTAL ****

SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	HOURS
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 ** LABOR BACKUP - LEVEL 6 **

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BACKUP PAGE

SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	**** TOTAL **** HOURS
A 06037102 01. Fencing - barbed wire											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	81
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	81
A 06037302 01. Planting Trees											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	30
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	30
A 09010101 01. Mob & Demob											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	40
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	80
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	100
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	280
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	340
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	600
A 09011502 01. Clearing and Snagging											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	480
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	14
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	14
A 09011502 02. Clearing for Channel Dredging											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	940
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	940
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	2820
A 09011502 03. Excavation											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	1155
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	2310
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	1155
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	2888
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	10973
A 09013002 01. Filter Drain Fabric											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	92
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	46
A 09013002 02. sand (8" thick)											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	1
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	2
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	1
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	3
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	10
A 09013002 03. riprap 16" - dry placement											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	20
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	20
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	20
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	50

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 ** LABOR BACKUP - LEVEL 6 **

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SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	***** TOTAL ***** HOURS
A 09013003 01. 1 FT U-frame Base Slab											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	1
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	16
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	9
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	28
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	12
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	1
A 09013003 03. Channel Wall Pavement (4")											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	2
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	27
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	9
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	46
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	8
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	1
A 09013003 04. Channel Wall Pavement (6")											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	2
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	27
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	9
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	46
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	8
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	1
A 09013003 05. Channel Wall Pavement (8")											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	2
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	38
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	3
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	10
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	64
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	12
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	1
A 09019905 01. Fence (chain link)											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	18
A 09019906 01. Aesthetic Tree Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	35
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	140
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	35
A 09019906 02. Aesthetic Shrub Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	59
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	235
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	59
B 06037102 01. Fencing - barbed wire											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	378
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	378
B 06037302 01. Planting Trees											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	139
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	139

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 ** LABOR BACKUP - LEVEL 6 **

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SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	HOURS	**** TOTAL ****
B 09010101 01. Mob & Demob												
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	200	
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	400	
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	500	
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	100	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1600	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1800	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	3100	
B 09011502 01. Clearing for Channel Dredging												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2720	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	2720	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	8160	
B 09011502 02. Degrading, hauling, shaping 16mi												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2377	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	4754	
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	1321	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	6736	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	14	
B 09011502 03. Clearing and Snagging												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	180	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	180	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	540	
B 09013002 01. sand (8" thick)												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	400	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	800	
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	400	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1200	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	12600	
B 09013002 02. Filter Drain Fabric												
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	5981	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	2991	
B 09013002 03. Fuseplug Dams												
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	900	
B 09013003 01. Cutoff Wall												
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	4506	
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	1916	
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	192	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1916	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	33	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00		
B 09013003 02. Channel Wall Pavement (4")												
B 09013003 03. Channel Wall Pavement (6")												
B 09013003 04. Channel Wall Pavement (8")												

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 ** LABOR BACKUP - LEVEL 6 **

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SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	**** TOTAL ****	
										DEFAULT	HOURS
B 09013003 05. drain ditch											
B 09019905 01. Fence (chain link)											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	10260
B 09019906 01. Aesthetic Tree Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	60
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	240
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	60
B 09019906 02. Aesthetic Shrub Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	100
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	400
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	100
B 14002202 02. Bridge - 10' x 50'											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	10
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	20
B 14002202 03. Bridge - 10' x 150'											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	10
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	20
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	20
B 14002202 04. Signs & Markers											
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	10
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	10
B 14002202 05. Trees											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	148
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	591
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	148
B 14002202 06. Fence (6' Wooden)											
JSR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	2100
JSR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	4900
C 06037102 01. Fencing - barbed wire											
JSR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	419
JSR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	419
C 06037302 01. Planting Trees											
JSR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	154
JSR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	154
C 09010101 01. Mob & Demob											
JSR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04	HR	01/27/93	0.00	100
JSR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26	HR	01/21/93	0.00	200
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	200
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18	HR	01/21/93	0.00	50
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	800

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 ** LABOR BACKUP - LEVEL 6 **

BACKUP PAGE 6

SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	HOURS
**** TOTAL ****											
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	700
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	1450
C 09011502 01. Clearing for Channel Dredging											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	4400
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	4400
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	13200
C 09011502 02. Excavation											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	2172
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	4344
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	2172
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	6516
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	46698
C 09013002 01. Geotextile Mat Turf Reinforcement											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	1090
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	5451
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1090
C 09013002 02. R-90 Stone											
USR DOPM	PEO DRAGLINE	14.81	16.7%	40.0%	2.63	0.00	26.82	HR	01/21/93	0.00	579
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	579
USR FOREMAN4	foreman 4 \$27.00/hr	27.00	0.0%	0.0%	0.00	0.00	27.00	HR	01/21/93	0.00	579
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1157
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	579
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1157
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	7523
C 09013002 03. Hydromulch											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	716
C 09013002 04. Excavation for stone											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	362
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	724
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	362
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1086
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	7783
C 09013002 05. Fuseplug Dams											
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	650
C 09019906 01. Aesthetic Tree Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	150
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	600
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	150
D 06037102 01. Fencing - barbed wire											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	365
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	365

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SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	HOURS	*** TOTAL ***
D 06037302 01. Planting Trees												
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	134	
USR PEOTRCTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00	HR	01/21/93	0.00	134	
D 09010101 01. Mob & Demob												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	240	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	420	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	660	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	840	
D 09011502 01. Clearing for Channel Dredging												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	3280	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	3280	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	9840	
D 09011502 02. Excavation												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	1991	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	3982	
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	1991	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	5973	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	28870	
D 09013002 01. Geotextile Mat Turf Reinforcement												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	1774	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	3570	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1774	
D 09013002 02. R-90 Stone												
USR DOPM	PEO DRAGLINE	14.81	16.7%	40.0%	2.63	0.00	26.82	HR	01/21/93	0.00	612-	
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	612	
USR FOREMAN4	foreman 4 \$27.00/hr	27.00	0.0%	0.0%	0.00	0.00	27.00	HR	01/21/93	0.00	612	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1225	
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	612	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1225	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	9799	
D 09013002 03. Hydromulch												
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1226	
D 09013002 04. Excavation for stone												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	544	
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	1088	
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	544	
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	1632	
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	7888	
D 09013002 05. Fuseplug Dams												
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	850	
D 09019906 01. Aesthetic Tree Planting												
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	190	

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SRC LABR ID	DESCRIPTION	BASE	OVERTM TXS/INS	FRNG	TRVL	RATE UOM	UPDATE	DEFAULT	HOURS	**** TOTAL ****
<hr/>										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	760
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	190
<hr/>										
E 06037102 01. Fencing - barbed wire										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	108
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	108
<hr/>										
E 06037302 01. Planting Trees										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	40
USR PEOTRACTOR	PEO-tractor	9.50	16.7%	40.0%	1.48	0.00	17.00 HR	01/21/93	0.00	40
<hr/>										
E 09010101 01. Mob & Demob										
USR CARM	CARPENTER	15.00	16.7%	40.0%	1.54	0.00	26.04 HR	01/27/93	0.00	60
USR CMNM	CEMENT MASON	13.22	16.7%	40.0%	1.67	0.00	23.26 HR	01/21/93	0.00	120
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	150
USR IRNM	IRONWORKER	14.54	16.7%	40.0%	2.43	0.00	26.18 HR	01/21/93	0.00	30
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	480
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	540
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	750
<hr/>										
E 09011502 01. Clearing for Channel Dredging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	400
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	400
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	1200
<hr/>										
E 09011502 02. Excavation										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	681
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	1362
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	681
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	1703
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	13280
<hr/>										
E 09011502 03. Clearing and Snagging										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	780
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	780
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	2340
<hr/>										
E 09013002 01. sand (8" thick)										
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50 HR	01/21/93	0.00	63
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	126
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50 HR	01/19/93	0.00	63
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	189
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50 HR	03/29/93	0.00	1607
<hr/>										
E 09013002 02. Filter Drain Fabric										
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67 HR	02/10/93	0.00	847
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	847
<hr/>										
E 09013002 03. Fuseplug Dams										
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84 HR	01/21/93	0.00	240

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SRC LABOR ID	DESCRIPTION	BASE	OVERTM	TXS/INS	FRNG	TRVL	RATE	UOM	UPDATE	DEFAULT	**** TOTAL **** HOURS
<hr/>											
E 09013003 01. Cutoff wall											
E 09013003 02. Channel Wall Pavement (4")											
E 09013003 03. Channel Wall Pavement (6")											
E 09013003 04. Channel Wall Pavement (8")											
E 09013003 05. drain ditch											
E 09019902 01. excavation											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	38
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	76
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	38
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	95
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	627
E 09019902 02. Filter Fabric											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	277
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	139
E 09019902 03. Crushed stone											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	53
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	53
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	106
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	795
E 09019902 04. Obstruction Removal											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	63
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	126
USR OILM	OILER	8.59	16.7%	40.0%	2.47	0.00	16.50	HR	01/19/93	0.00	63
USR PEOM	PEO-ALL EXCPT DRGLNE	14.31	16.7%	40.0%	2.46	0.00	25.84	HR	01/21/93	0.00	252
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	473
E 09019905 01. Fence (chain link)											
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	672
E 09019906 01. Aesthetic Tree Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	22
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	87
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	22
E 09019906 02. Aesthetic Shrub Planting											
USR FOREMAN3	foreman 3 \$26.50/hr	26.50	0.0%	0.0%	0.00	0.00	26.50	HR	01/21/93	0.00	37
USR LABM	LABORER	9.57	16.7%	40.0%	1.03	0.00	16.67	HR	02/10/93	0.00	147
USR TRKM	TRUCK DRIVER	9.95	16.7%	40.0%	1.25	0.00	17.50	HR	03/29/93	0.00	37

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** EQUIPMENT BACKUP **

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SRC EQUIP ID	DESCRIPTION	** TOTAL **							
		DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM HOURS

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 ** EQUIPMENT BACKUP - LEVEL 6 **

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
A 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	31
A 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	30
A 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	20
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	20
USR BKNC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	20
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	20
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	40
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	20
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	20
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	20
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	40
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	20
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	60
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	20
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	20
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	20
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	20
USR TRAC	FARM TRACTOR W/DISC J.D. 2355	1.94		1.89		2.29			6.12 HR	20
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	20
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	420
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	180
A 09011502 01. Clearing and Snagging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	400
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	400
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	80
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	400
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	400
A 09011502 02. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	470
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	940
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	940
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	940
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	470
A 09011502 03. Excavation										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1155
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	1155
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	578
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	578
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	10395
A 09013002 01. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	46

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 ** EQUIPMENT BACKUP - LEVEL 6 **

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
A 09013002 02. sand (8" thick)										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	1
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	9
A 09013002 03. riprap 16" - dry placement										
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	10
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	20
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	50
A 09013003 01. 1 FT U-frame Base Slab										
A 09013003 02. 1 FT U-frame wall										
A 09013003 03. Channel Wall Pavement (4")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	2
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	3
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	3
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	
USR SNDB	SANDBLASER, 1400#, HOSE, 216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	3
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09013003 04. Channel Wall Pavement (6")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	2
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	4
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	2
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	4
USR SNDB	SANDBLASER, 1400#, HOSE, 216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	2
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09013003 05. Channel Wall Pavement (8")										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	3
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	1
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	5
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	3
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	5
USR SNDB	SANDBLASER, 1400#, HOSE, 216CFM	2.46				4.03			6.49 HR	1
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	4
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1
A 09019905 01. Fence (chain link)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	
A 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	35

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 ** EQUIPMENT BACKUP - LEVEL 6 **

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	HOURS	** TOTAL **
A 09019906 02. Aesthetic Shrub Planting											
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	59	
B 06037102 01. Fencing - barbed wire											
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	378	
B 06037302 01. Planting Trees											
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	380	
B 09010101 01. Mob & Demob											
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	100	
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	200	
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	100	
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	100	
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	200	
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	100	
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	100	
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	100	
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	100	
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	500	
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	100	
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	100	
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	100	
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	100	
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	100	
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	100	
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	3100	
B 09011502 01. Clearing for Channel Dredging											
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1360	
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	2720	
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	2720	
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2720	
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	1360	
B 09011502 02. Degrading, hauling, shaping 16mi											
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	1321	
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3698	
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1717	
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	661	
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	14159	
B 09011502 03. Clearing and Snagging											
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	150	
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	180	
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	30	
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	180	
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	180	
B 09013002 01. sand (8" thick)											
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	400	

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 ** EQUIPMENT BACKUP - LEVEL 6 **

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	** TOTAL ** HOURS
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	600
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	200
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	200
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	12400
B 09013002 02. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	2991
B 09013002 03. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	900
B 09013003 01. Cutoff Wall										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	96
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	383
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	806
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	192
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	383
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	1690
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	192
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	900
B 09013003 02. Channel Wall Pavement (4")										
B 09013003 03. Channel Wall Pavement (6")										
B 09013003 04. Channel Wall Pavement (8")										
B 09013003 05. drain ditch										
B 09019905 01. Fence (chain link)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	3420
B 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	60
B 09019906 02. Aesthetic Shrub Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	100
B 14002202 02. Bridge - 10' x 50'										
USR CHYC	CHERRYPICKER GROVE 45 TON	24.07		6.82		21.97			52.86 HR	10
B 14002202 03. Bridge - 10' x 150'										
USR CHYC	CHERRYPICKER GROVE 45 TON	24.07		6.82		21.97			52.86 HR	10
B 14002202 04. Signs & Markers										
B 14002202 05. Trees										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	148
B 14002202 06. Fence (6' Wooden)										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	700
C 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	419
C 06037302 01. Planting Trees										

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	154
C 09010101	01. Mob & Demob									
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	50
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	50
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	50
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	50
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	100
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	50
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	50
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	50
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	50
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	150
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	50
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	50
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	50
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	50
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	50
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	50
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	1450
C 09011502	01. Clearing for Channel Dredging									
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	2200
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	4400
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	4400
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	4400
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	2200
C 09011502	02. Excavation									
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	2172
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3258
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	1086
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	1086
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	45612
C 09013002	01. Geotextile Mat Turf Reinforcement									
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	1090
C 09013002	02. R-90 Stone									
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	1157
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	579
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	579
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7523
C 09013002	03. Hydromulch									
USR SPRAYER	sprayer, hydromulch	10.00							10.00 HR	716
C 09013002	04. Excavation for stone									
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	362
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	543
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	181

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	TOTAL UOM	** TOTAL ** HOURS
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	181
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7602
C 09013002 05. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	650
C 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	150
D 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	365
D 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	134
D 09010101 01. Mob & Demob										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	120
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	60
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	60
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	12
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	60
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	180
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	60
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	60
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	60
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	840
D 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1640
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	3280
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	3280
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	3280
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	1640
D 09011502 02. Excavation										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	1991
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	2987
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	996
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	996
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	27874
D 09013002 01. Geotextile Mat Turf Reinforcement										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	1774
D 09013002 02. R-90 Stone										
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	1225
USR BOX1	rock box/hopper - 25T capacity	4.00							4.00 HR	61
USR CRNA	CRANE AMER 5299-A 60T 75' boom	16.59		2.26		17.16			36.01 HR	612
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	9799
D 09013002 03. Hydromulch										

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
USR SPRAYER	sprayer, hydromulch	10.00							10.00 HR	1226
D 09013002 04. Excavation for stone										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	544
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	816
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	272
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	272
USR TRKH	trailer truck, 20 cy, owner-op	28.00							28.00 HR	7616
D 09013002 05. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	850
D 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	190
E 06037102 01. Fencing - barbed wire										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	108
E 06037302 01. Planting Trees										
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	40
E 09010101 01. Mob & Demob										
USR AIRF	AIR COMPRESSOR 250 CFM	2.58		2.80		2.79			8.17 HR	30
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	60
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	30
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	30
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	60
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	30
USR CMLT	sealant hot mixer & pump	7.00							7.00 HR	30
USR CNPV	CONCRETE PAVER 26' WIDE SLIPFORM	24.69		7.16		25.12			56.97 HR	30
USR DOZA	DOZER D-4 W/BLADE	6.60		3.04		8.60			18.24 HR	30
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	150
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	30
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	30
USR PMPC	WATER PUMP 3" HOMELITE	0.14		0.86		0.39			1.39 HR	30
USR T30DW002	trencher, chain, 6"x36"	1.55		1.39		1.83			4.77 HR	30
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	30
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	30
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	750
E 09011502 01. Clearing for Channel Dredging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	200
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	400
USR CHNSAW	chainsaw, Homelite 31"	0.15		0.32		1.00			1.47 HR	400
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	400
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	200
E 09011502 02. Excavation										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	681
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	681
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	341

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	341
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	12939
E 09011502 03. Clearing and Snagging										
USR BKHC	BACKHOE CAT 235 C 2.0 CY	33.09		6.77		28.92			68.78 HR	650
USR CHIPPER	chipping machine (tree clearing)	25.00							25.00 HR	780
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	130
USR FELA	F E LOADER CAT 953 2.0 CY crwlr	11.99		3.52		16.68			32.19 HR	780
USR SAWB	CHAIN SAW - Homelite - 31" bar	0.15		0.32		1.00			1.47 HR	780
E 09013002 01. sand (8" thick)										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	63
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	95
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	32
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	32
USR TRKE	DUMP TRUCK 12 CY	6.39		7.53		8.19			22.11 HR	1575
E 09013002 02. Filter Drain Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	424
E 09013002 03. Fuseplug Dams										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	240
E 09013003 01. Cutoff wall										
E 09013003 02. Channel Wall Pavement (4")										
E 09013003 03. Channel Wall Pavement (6")										
E 09013003 04. Channel Wall Pavement (8")										
E 09013003 05. drain ditch										
E 09019902 01. excavation										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	38
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	38
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	19
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	19
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	608
E 09019902 02. Filter Fabric										
USR CHYA	CHERRYPICKER GROVE 18 TON	11.42		4.31		10.57			26.30 HR	139
E 09019902 03. Crushed stone										
USR BKHI	BACKHOE, HITACHI UH083 1.13 CY	12.03		3.11		10.65			25.79 HR	53
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	53
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	795
E 09019902 04. Obstruction Removal										
USR BKHB	BACKHOE CAT 225B 1.25 CY	17.54		3.92		15.46			36.92 HR	126
USR DOZB	DOZER D-6 W/BLADE	12.10		4.48		15.43			32.01 HR	95
USR MOTG	MOTOR GRADER CAT 12-G	11.14		3.65		9.50			24.29 HR	32
USR TRKA	WATER TRUCK 2000 GAL	4.83		5.25		5.94			16.02 HR	32
USR TRKI	Dump truck, 12 cy, own-op	22.00							22.00 HR	441
E 09019905 01. Fence (chain link)										

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SRC EQUIP ID	DESCRIPTION	DEPR	CAPT	FUEL	FOG	EQ REP	TR WR	TR REP	** TOTAL **	
									TOTAL UOM	HOURS
USR TRCB	FARM TRACTOR JD 2355	1.94		1.89		2.29			6.12 HR	224
E 09019906 01. Aesthetic Tree Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	22
E 09019906 02. Aesthetic Shrub Planting										
USR TRKD	FLATBED TRUCK 8X12	3.70		5.25		5.20			14.15 HR	37

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 A 09011502 03. Excavation
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SETTINGS PAGE 1

A 09011502 03. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
A 09011502 03 Excavation					283000.0000 CY
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	5.0000	* Multiply by		MI
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					10.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	4.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0667 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	245.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.4333	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					9.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	245.0000			CY/
PRODRT6 production rate					245.0000 CY/
TIME1 6 total work hours					
excavation quantity	N (283000.0000	/ Divide by		CY
production rate	W PRODRT6	245.0000)	R Round		CY/

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 A 09011502 03. Excavation
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SETTINGS PAGE 2

A 09011502 03. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					1155.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					
truck capacity	N	20.0000			CY
TRKCAP6 truck capacity					20.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0667	+ Add to		HR
haul distance	W HAULD 6 (	10.0000	/ Divide by		MI
travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
TRKCYC6 truck cycle time					0.4333 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	1155.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	9.0000			TRU
TRKHRS6 total truck hours					10395.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					16.0000 CY
TRKSPD6 truck speed					
truck speed	N	30.0000			MPH
TRKSPD6 truck speed					30.0000 MPH

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A 09011502 03. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
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WKTIME6 work time per hour

time efficiency per hour	N	0.8300	FAC
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WKTIME6 work time per hour 0.8300 HR

EQ1 BACKHOE CAT 235 C 2.0 CY	W TIME1 6	1155.0000 HRS * Multiply by	1.0000	1155.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	1155.0000 HRS * Multiply by	1.0000	1155.0000 HR
EQ3 trailer truck, 20 cy, owner-op	W TRKHRS6	10395.0000 HR * Multiply by	1.0000	10395.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	1155.0000 HRS * Multiply by	0.5000	577.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	1155.0000 HRS * Multiply by	0.5000	577.5000 HR
LB1 OILER	A EQ1	1155.0000 HR * Multiply by	1.0000	1155.0000 HR
LB2 TRUCK DRIVER	A w3	10395.0000 HR * Multiply by	1.0000	10395.0000 HR
LB3 PEO-backhoe	A EQ1	1155.0000 HR * Multiply by	1.0000	1155.0000 HR
LB4 PEO-dozer	A EQ2	1155.0000 HR * Multiply by	1.0000	1155.0000 HR
LB6 PEO-motor grader	A EQ5	577.5000 HR * Multiply by	1.0000	577.5000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	577.5000 HR * Multiply by	1.0000	577.5000 HR
LB8 LABORER	W TIME1 6	1155.0000 HRS * Multiply by	2.0000	2310.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	1155.0000 HRS * Multiply by	1.0000	1155.0000 HR

A 09013002 02 sand (8" thick)

160.0000 CY

DUMPTI6 dump time(in hours)

dump time(in minutes)	N	2.0000 / Divide by	MIN
minutes per hour	N	60.0000	MIN

DUMPTI6 dump time(in hours) 0.0333 HR

HAULD 6 haul distance (round trip)

haul distance (1 way)	N	5.0000 * Multiply by	MI
make round trip	N	2.0000	MI

HAULD 6 haul distance (round trip) 10.0000 MI

LOADTI6 load time (in hours)

load time (in minutes)	N	4.0000 / Divide by	MIN
minutes per hour	N	60.0000	MIN

LOADTI6 load time (in hours) 0.0667 HR

NTRUCK6 number of trucks needed

production rate	W PRODRT6 (120.0000 / Divide by	CY/
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A 09013002 02. sand (8" thick)	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.4333	* Multiply by		HR
truck payload	W TRKPAY6	8.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
 NTRUCK6 number of trucks needed				9.0000	TRU
 PRODR6 production rate					
production rate (CY/HR)	N	120.0000			CY/
 PRODR6 production rate				120.0000	CY/
 TIME1 6 total work hours					
excavation quantity	N (	160.0000	/ Divide by		CY
production rate	W PRODR6	120.0000)	R Round		CY
(round UP to whole number)	N	1.0000			FAC
 TIME1 6 total work hours				1.0000	HRS
 TLOADF6 truck load factor					
load factor	N	0.6667			FAC
 TLOADF6 truck load factor				0.6667	FAC
 TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
 TRKCAP6 truck capacity				12.0000	CY
 TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0667	+ Add to		HR
haul distance	W HAULD 6 (	10.0000	/ Divide by		MI
travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
 TRKCYC6 truck cycle time				0.4333	HR
 TRKHRS6 total truck hours					

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 A 09013002 02. sand (8" thick)
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	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
A 09013002 02. sand (8" thick)					
work time	W TIME1 6	1.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	9.0000	,		TRU
TRKHRS6 total truck hours					9.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.6667)	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					8.0000 CY
TRKSPD6 truck speed					
truck speed	N	30.0000			MPH
TRKSPD6 truck speed					30.0000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	1.0000 HRS	* Multiply by	1.5000	1.5000 HR
EQ3 DUMP TRUCK 12 CY	W TRKHRS6	9.0000 HR	* Multiply by	1.0000	9.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	1.0000 HRS	* Multiply by	0.5000	0.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	1.0000 HRS	* Multiply by	0.5000	0.5000 HR
LB1 OILER	A EQ1	1.0000 HR	* Multiply by	1.0000	1.0000 HR
LB2 TRUCK DRIVER	A EQ3	9.0000 HR	* Multiply by	1.0000	9.0000 HR
LB3 PEO-backhoe	A EQ1	1.0000 HR	* Multiply by	1.0000	1.0000 HR
LB4 PEO-dozer	A EQ2	1.5000 HR	* Multiply by	1.0000	1.5000 HR
LB6 PEO-motor grader	A EQ5	0.5000 HR	* Multiply by	1.0000	0.5000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	0.5000 HR	* Multiply by	1.0000	0.5000 HR
LB8 LABORER	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
LB9 flagmen	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	1.0000 HRS	* Multiply by	1.0000	1.0000 HR

A 09013002 03 riprap 16" - dry placement

890.0000 TON

DUMPTI6 dump time(in hours)

dump time(in minutes)	N	2.0000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

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	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
DUMPTI6 dump time (in hours)				0.0333 HR
HAULD 6 haul distance (round trip)				
haul distance (1 way)	N	6.0000	* Multiply by	MI
make round trip	N	2.0000		MI
HAULD 6 haul distance (round trip)				12.0000 MI
LOADTI6 load time (in hours)				
load time (in minutes)	N	13.4000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN
LOADTI6 load time (in hours)				0.2233 HR
NTRUCK6 number of trucks needed				
production rate	W PRODR6 (	90.0000	/ Divide by	CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by	HR
truck cycle time	W TRKCYC6	0.7181	* Multiply by	HR
truck payload	W TRKPAY6	20.0000)	* Multiply by	CY
N		1.0000)	U Round Up	TRU
round UP to whole number	N	1.0000	+ Add to	TRU
add 1 extra truck	N	1.0000		TRU
NTRUCK6 number of trucks needed				5.0000 TRU
PRODR6 production rate				
production rate (ton/HR)	N	90.0000		TON
PRODR6 production rate				90.0000 TON
TIMEL 6 total work hours				
excavation quantity	N (	890.0000	/ Divide by	TON
production rate	W PRODR6	90.0000)	R Round	TON
(round UP to whole number)	N	1.0000		FAC
TIMEL 6 total work hours				10.0000 HR
TLOADF6 truck load factor				

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A 09013002 03. riprap 16" - dry placement REFERENCE		REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
load factor	N	0.6667			FAC
TLOADF6 truck load factor					0.6667 FAC
TRKCAP6 truck capacity					
truck capacity	N	30.0000			TON
TRKCAP6 truck capacity					30.0000 TON
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.2233	+ Add to		HR
haul distance	W HAULD 6 (	12.0000	/ Divide by		M
travel speed	W TRKSPD6	26.0000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
TRKCYC6 truck cycle time					0.7181 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	10.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	5.0000			TRU
TRKHRS6 total truck hours					50.0000 HR
TRKPAY6 truck payload - tons per cycle					
truck capacity	W TRKCAP6 (	30.0000	* Multiply by		TON
truck load factor (80%)	W TLOADF6	0.6667)	R Round		FAC
round number	N	1.0000			TON
TRKPAY6 truck payload - tons per cycle					20.0000 TON
TRKSPD6 truck speed					
truck speed	N	26.0000			MPH
TRKSPD6 truck speed					26.0000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR

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A 09013002 03. riprap 16" - dry placement REFERENCE			REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
EQ1	CRANE AMER 5299-A 60T 75' boom	W TIME1 6	10.0000 HRS * Multiply by		2.0000	20.0000 HR
EQ2	rock box/hopper - 25T capacity	W TIME1 6	10.0000 HRS * Multiply by		1.0000	10.0000 HR
EQ3	trailer truck, 20 cy, owner-op	W TRKHRS6	50.0000 HR * Multiply by		1.0000	50.0000 HR
LB1	OILER	A EQ1	20.0000 HR * Multiply by		1.0000	20.0000 HR
LB2	TRUCK DRIVER	A EQ3	50.0000 HR * Multiply by		1.0000	50.0000 HR
LB3	PEO	A EQ1	20.0000 HR * Multiply by		1.0000	20.0000 HR
LB8	LABORER	W TIME1 6	10.0000 HRS * Multiply by		1.0000	10.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	10.0000 HRS * Multiply by		1.0000	10.0000 HR
A 09013003 02 1 FT U-frame wall						100.0000 CY
A 09013003 03 Channel Wall Pavement (4")						55.0000 CY
5	conc slope pvmt-grade & pave	P	55.0000 CY / Divide by		1.2346	44.5488 SQ
6	conc slope pvmt-backfill	A 1	0.0000 LF * Multiply by		1.0000	0.0000 LF
9	concrete material + 5% waste	P	55.0000 CY * Multiply by		1.0500	57.7500 CY
11	expan jnt filler + 3% wste (2/2)	A 10	55.7000 LF * Multiply by		1.0000	55.7000 LF
12	joint sealer cmpd + 3% waste	A 7	320.1000 LBS * Multiply by		1.0300	329.7030 LB
13	curing compound	A 5	44.5488 SQ / Divide by		2.0000	22.2744 GAL
14	reinforcing mesh + 5% waste	A 4	4454.9000 SF * Multiply by		1.0500	4677.6450 SF
15	stakes, core drilling	A 5	44.5488 SQ * Multiply by		1.0000	44.5488 SQ
16	forms, nails, etc	A 3	60.0000 LF * Multiply by		1.0000	60.0000 LF
A 09013003 04 Channel Wall Pavement (6")						43.0000 CY
5	conc slope pvmt-grade & pave-hnd	P	43.0000 CY / Divide by		1.8519	23.2194 SQ
6	conc slope pvmt-backfill	A 1	0.0000 LF * Multiply by		1.0000	0.0000 LF
9	concrete (2500 psi) + 5% waste	P	43.0000 CY * Multiply by		1.0500	45.1500 CY
11	expan jnt filler + 3% wste (2/2)	A 10	74.2000 LF * Multiply by		1.0000	74.2000 LF
12	joint sealer cmpd + 3% waste	A 7	167.8000 LBS * Multiply by		1.0300	172.8340 LBS
13	curing compound	A 5	23.2194 SQ / Divide by		2.0000	11.6097 GAL
14	reinforcing mesh + 5% waste	A 4	2321.9000 SF * Multiply by		1.0500	2437.9950 SF
15	stakes, core drilling	A 5	23.2194 SQ * Multiply by		1.0000	23.2194 SQ
16	forms, nails, etc	A 3	60.0000 LF * Multiply by		1.0000	60.0000 LF
A 09013003 05 Channel Wall Pavement (8")						62.0000 CY
5	conc slope pvmt-grade & pave-hnd	P	62.0000 CY / Divide by		2.4691	25.1104 SQ
6	conc slope pvmt-backfill	A 1	0.0000 LF * Multiply by		1.0000	0.0000 LF
9	concrete (2500 psi) + 5% waste	P	62.0000 CY * Multiply by		1.0500	65.1000 CY
11	expan jnt filler + 3% wste (2/2)	A 10	32.3000 LF * Multiply by		1.0000	32.3000 LF
12	joint sealer cmpd + 3% waste	A 7	338.8000 LBS * Multiply by		1.0300	348.9640 L
13	curing compound	A 5	25.1104 SQ / Divide by		2.0000	12.5552 Q
14	reinforcing mesh + 5% waste	A 4	2511.0000 SF * Multiply by		1.0500	2636.5500 SF
15	stakes, core drilling	A 5	25.1104 SQ * Multiply by		1.0000	25.1104 SQ
16	forms, nails, etc	A 3	60.0000 LF * Multiply by		1.0000	60.0000 LF

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B 09011502 02. Degrading, hauling, shapi REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
B 09011502 02 Degrading, hauling, shaping 16mi				162000.0000 CY
DUMPTI6 dump time(in hours)				
dump time(in minutes)	N	1.0000 / Divide by		MIN
minutes per hour	N	60.0000		MIN
DUMPTI6 dump time(in hours)				0.0167 HR
HAULD 6 haul distance (round trip)				
haul distance (1 way)	N	2.0000 * Multiply by		MI
make round trip	N	2.0000		MI
HAULD 6 haul distance (round trip)				4.0000 MI
LOADTI6 load time (in hours)				
load time (in minutes)	N	5.4000 / Divide by		MIN
minutes per hour	N	60.0000		MIN
LOADTI6 load time (in hours)				0.0900 HR
NTRUCK6 number of trucks needed				
production rate	W PRODRT6 (	100.0000 / Divide by		CY/
work time per hour	W WKTIME6 (	0.8300 / Divide by		HR
truck cycle time	W TRKCYC6	0.3067 * Multiply by		HR
truck payload	W TRKPAY6	9.0000) * Multiply by		CY
	N	1.0000) U Round Up		TRU
round UP to whole number	N	1.0000 + Add to		TRU
add 1 extra truck	N	1.0000		TRU
NTRUCK6 number of trucks needed				6.0000 TRU
PRODRT6 production rate				
production rate (CY/HR)	N	100.0000		CY/
PRODRT6 production rate				100.0000 CY/
TIME1 6 total work hours				
excavation quantity	N (105000.0000 / Divide by		CY
production rate	W PRODRT6	100.0000) R Round		CY/

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	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
B 09011502 02. Degrading, hauling, shapi					
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					1050.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.7500			FAC
TLOADF6 truck load factor					0.7500 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT16	0.0900	+ Add to		HR
haul distance	W HAULD 6 (	4.0000	/ Divide by		MI
travel speed	W TRKSPD6	20.0000)	+ Add to		MPH
dump time	W DUMPT16	0.0167			HR
TRKCYC6 truck cycle time					0.3067 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	1050.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	6.0000			TRU
TRKHRS6 total truck hours					6300.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (75%)	W TLOADF6	0.7500)	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					9.0000 CY
TRKSPD6 truck speed					
truck speed	N	20.0000			MPH
TRKSPD6 truck speed					20.0000 MPH

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B 09011502 02. Degrading, hauling, shapi REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
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WKTIME6 work time per hour

time efficiency per hour	N	0.8300	FAC
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WKTIME6 work time per hour			0.8300 HR
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1EQ1	BACKHOE CAT 225B 1.25 CY	W TIME1 6	1050.0000 HRS * Multiply by	1.0000	1050.0000 HR
1EQ2	DOZER D-6 W/BLADE	W TIME1 6	1050.0000 HRS * Multiply by	2.0000	2100.0000 HR
1EQ3	Dump truck, 12 cy, own-op	W TRKHRS6	6300.0000 HR * Multiply by	1.0000	6300.0000 HR
1EQ4	WATER TRUCK 2000 GAL	W TIME1 6	1050.0000 HRS * Multiply by	0.5000	525.0000 HR
1EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	1050.0000 HRS * Multiply by	0.5000	525.0000 HR
1LB1	OILER	A 1EQ1	1050.0000 HR * Multiply by	1.0000	1050.0000 HR
1LB2	TRUCK DRIVER	A 1EQ3	6300.0000 HR * Multiply by	1.0000	6300.0000 HR
1LB3	PEO-backhoe	A 1EQ1	1050.0000 HR * Multiply by	1.0000	1050.0000 HR
1LB4	PEO-dozer	A 1EQ2	2100.0000 HR * Multiply by	1.0000	2100.0000 HR
1LB5	PEO-motor grader	A 1EQ5	525.0000 HR * Multiply by	1.0000	525.0000 HR
1LB6	TRUCK DRIVER - water truck	A 1EQ4	525.0000 HR * Multiply by	1.0000	525.0000 HR
1LB7	LABORER	W TIME1 6	1050.0000 HRS * Multiply by	1.0000	1050.0000 HR
1LB8	flagmen	W TIME1 6	1050.0000 HRS * Multiply by	1.0000	1050.0000 HR
1LB9	foreman 3 \$26.50/hr	W TIME1 6	1050.0000 HRS * Multiply by	1.0000	1050.0000 HR
2LB2	TRUCK DRIVER	A 2EQ3	7859.0000 HR * Multiply by	1.0000	7859.0000 HR
2LB3	PEO-backhoe	A 2EQ1	271.0000 HR * Multiply by	1.0000	271.0000 HR
2LB4	PEO-dozer	A 2EQ2	542.0000 HR * Multiply by	1.0000	542.0000 HR
2LB5	PEO-motor grader	A 2EQ5	136.0000 HR * Multiply by	1.0000	136.0000 HR
2LB6	TRUCK DRIVER - water truck	A 2EQ4	136.0000 HR * Multiply by	1.0000	136.0000 HR
3LB2	PEO dozer	A 3EQ2	1056.0000 HR * Multiply by	1.0000	1056.0000 HR
3LB3	PEO motor grader	A 3EQ1	1056.0000 HR * Multiply by	1.0000	1056.0000 HR

B 09013002 01 sand (8" thick)

84000.0000 CY

DUMPTI6 dump time(in hours)

dump time(in minutes)	N	2.0000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

DUMPTI6 dump time(in hours)

0.0333 HR

HAULD 6 haul distance (round trip)

haul distance (1 way)	N	15.0000	* Multiply by	MI
make round trip	N	2.0000		MI

HAULD 6 haul distance (round trip)

30.0000 MI

LOADTI6 load time (in hours)

load time (in minutes)	N	2.3000	/ Divide by	MIN
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	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
B 09013002 01. sand (8" thick)					
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0383 HR
NTRUCK6 number of trucks needed					
production rate	W PRODR6 (	210.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.9412	* Multiply by		HR
truck payload	W TRKPAY6	8.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					31.0000 TRU
PRODR6 production rate					
production rate (CY/HR)	N	210.0000			C
PRODR6 production rate					210.0000 CY/
TIMEI 6 total work hours					
excavation quantity	A 01 (	84000.0000	/ Divide by		CY
production rate	W PRODR6	210.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIMEI 6 total work hours					400.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.6667			FAC
TLOADF6 truck load factor					0.6667 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADTI6	0.0383	+ Add to		HR

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B 09013002 01. sand (8" thick)	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
haul distance	W HAULD 6 (	30.0000	/ Divide by		MI
travel speed	W TRKSPD6	34.5000	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.9412 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	400.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	31.0000			TRU
TRKHRS6 total truck hours					12400.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.6667	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					8.0000 CY
TRKSPD6 truck speed					
truck speed	N	34.5000			MPH
TRKSPD6 truck speed					34.5000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	400.0000 HRS	* Multiply by	1.5000	600.0000 HR
EQ3 DUMP TRUCK 12 CY	W TRKHRS6	12400.0000 HR	* Multiply by	1.0000	12400.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	400.0000 HRS	* Multiply by	0.5000	200.0000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	400.0000 HRS	* Multiply by	0.5000	200.0000 HR
LB1 OILER	A EQ1	400.0000 HR	* Multiply by	1.0000	400.0000 HR
LB2 TRUCK DRIVER	A EQ3	12400.0000 HR	* Multiply by	1.0000	12400.0000 HR
LB3 PEO-backhoe	A EQ1	400.0000 HR	* Multiply by	1.0000	400.0000 HR
LB4 PEO-dozer	A EQ2	600.0000 HR	* Multiply by	1.0000	600.0000 HR
LB6 PEO-motor grader	A EQ5	200.0000 HR	* Multiply by	1.0000	200.0000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	200.0000 HR	* Multiply by	1.0000	200.0000 HR
LB8 LABORER	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR
LB9 flagmen	W TIME1 6	400.0000 HRS	* Multiply by	1.0000	400.0000 HR

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B 09013002 01. sand (8" thick)		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LB10 foreman 3 \$26.50/hr		W TIME1 6	400.0000 HRS * Multiply by		1.0000	400.0000 HR
B 09013003 01 Cutoff Wall						6150.0000 CY
5	conc slope pvmnt-grade & pave	P	6150.0000 CY / Divide by		1.2346	4981.3705 SQ
6	cone slope pvmnt-backfill	A 2	168960.0000 LF * Multiply by		0.2500	42240.0000 LF
9	concrete material + 5% waste	P	6150.0000 CY * Multiply by		1.0500	6457.5000 CY
11	expan jnt filler + 3% wate (2/2)	A 10	0.0000 LF * Multiply by		1.0000	0.0000 LF
12	joint sealer cmpd + 3% waste	A 7	0.0000 LBS * Multiply by		1.0300	0.0000 LBS
13	curing compound	A 5	4981.3705 SQ / Divide by		2.0000	2490.6852 GAL
14	reinforcing mesh + 5% waste	A 4	0.0000 SF * Multiply by		1.0500	0.0000 SF
15	stakes, core drilling	A 5	4981.3705 SQ * Multiply by		1.0000	4981.3705 SQ
16	forms, nails, etc	A	168960.0000 LF * Multiply by		1.0000	168960.0000 LF
C 09011502 02 Excavation						695000.0000 CY
DUMPTI6 dump time(in hours)						
dump time(in minutes)		N	2.0000 / Divide by			MI
minutes per hour		N	60.0000			MIN
DUMPTI6 dump time(in hours)						0.0333 HR
HAULD 6 haul distance (round trip)						
haul distance (1 way)		N	15.0000 * Multiply by			MI
make round trip		N	2.0000			MI
HAULD 6 haul distance (round trip)						30.0000 MI
LOADTI6 load time (in hours)						
load time (in minutes)		N	3.0000 / Divide by			MIN
minutes per hour		N	60.0000			MIN
LOADTI6 load time (in hours)						0.0500 HR
NTRUCK6 number of trucks needed						
production rate		W PRODR6 (	320.0000 / Divide by			CY/
work time per hour		W WKTIME6 (	0.8300 / Divide by			HR
truck cycle time		W TRKCYC6	0.8150 * Multiply by			HR
truck payload		W TRKPAY6	16.0000) * Multiply by			CY
		N	1.0000) U Round Up			TRU
round UP to whole number		N	1.0000 + Add to			TRU
add 1 extra truck		N	1.0000			TRU

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C 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
NTRUCK6 number of trucks needed					21.0000 TRU
PRODR6 production rate					
production rate (CY/HR)	N	320.0000			CY/
PRODR6 production rate					320.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 02	(695000.0000	/ Divide by		CY
production rate	W PRODR6	320.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					2172.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					
truck capacity	N	20.0000			CY
TRKCAP6 truck capacity					20.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0500	+ Add to		HR
haul distance	W HAULD 6	(30.0000	/ Divide by		MI
travel speed	W TRKSPD6	41.0000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
TRKCYC6 truck cycle time					0.8150 HR
TRKHRS6 total truck hours					\$
work time	W TIME1 6	2172.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	21.0000			TRU
TRKHRS6 total truck hours					45612.0000 HR

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 C 09011502 02. Excavation
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C 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle				16.0000	CY
<hr/>					
TRKSPD6 truck speed					
truck speed	N	41.0000			MPH
TRKSPD6 truck speed				41.0000	MPH
<hr/>					
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour				0.8300	HR
<hr/>					
EQ1 BACKHOE CAT 235 C 2.0 CY	W TIME1 6	2172.0000 HRS	* Multiply by	1.0000	2172.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	2172.0000 HRS	* Multiply by	1.5000	3258.0000 HR
EQ3 trailer truck, 20 cy, owner-op	W TRKHRS6	45612.0000 HR	* Multiply by	1.0000	45612.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	2172.0000 HRS	* Multiply by	0.5000	1086.0000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	2172.0000 HRS	* Multiply by	0.5000	1086.0000 HR
LB1 OILER	A EQ1	2172.0000 HR	* Multiply by	1.0000	2172.0000 HR
LB2 TRUCK DRIVER	A EQ3	45612.0000 HR	* Multiply by	1.0000	45612.0000 HR
LB3 PEO-backhoe	A EQ1	2172.0000 HR	* Multiply by	1.0000	2172.0000 HR
LB4 PEO-dozer	A EQ2	3258.0000 HR	* Multiply by	1.0000	3258.0000 HR
LB6 PEO-motor grader	A EQ5	1086.0000 HR	* Multiply by	1.0000	1086.0000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	1086.0000 HR	* Multiply by	1.0000	1086.0000 HR
LB8 LABORER	W TIME1 6	2172.0000 HRS	* Multiply by	2.0000	4344.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	2172.0000 HRS	* Multiply by	1.0000	2172.0000 HR
<hr/>					
C 09013002 04 Excavation for stone				115700.0000	CY
<hr/>					
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)				0.0333	HR
<hr/>					
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	15.0000	* Multiply by		MI
<hr/>					
LABOR ID: EBR001 EQUIP ID: EBR001					
Currency in DOLLARS			CREW ID: EBR001 UPB ID: EBR001		

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C 09013002 04. Excavation for stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					30.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	3.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0500 HR
NTRUCK6 number of trucks needed					
production rate	W PRODR6 (	320.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.8150	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					21.0000 TRU
PRODR6 production rate					
production rate (CY/HR)	N	320.0000			CY/
PRODR6 production rate					320.0000 CY/
TIMEI6 total work hours					
excavation quantity	A 04 (	115700.0000	/ Divide by		CY
production rate	W PRODR6	320.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIMEI6 total work hours					362.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					

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C 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
truck capacity	N		20.0000			CY
TRKCAP6 truck capacity					20.0000	CY
TRKCYC6 truck cycle time						
truck load time	W LOADT6	0.0500	+ Add to			HR
haul distance	W HAULD 6 (	30.0000	/ Divide by			MI
travel speed	W TRKSPD6	41.0000)	+ Add to			MPH
dump time	W DUMPT6	0.0333				HR
TRKCYC6 truck cycle time					0.8150	HR
TRKHRS6 total truck hours						
work time	W TIME1 6	362.0000	* Multiply by			HRS
number of trucks needed	W NTRUCK6	21.0000				TRU
TRKHRS6 total truck hours					7602.0000	HR
TRKPAY6 truck payload - CY per cycle						
truck capacity	W TRKCAP6 (	20.0000	* Multiply by			CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round			FAC
round number	N	1.0000				CY
TRKPAY6 truck payload - CY per cycle					16.0000	CY
TRKSPD6 truck speed						
truck speed	N	41.0000				MPH
TRKSPD6 truck speed					41.0000	MPH
WKTIME6 work time per hour						
time efficiency per hour	N	0.8300				FAC
WKTIME6 work time per hour					0.8300	HR
EQ1 BACKHOE CAT 235 C 2.0 CY	W TIME1 6	362.0000 HRS	* Multiply by	1.0000	362.0000 H	
EQ2 DOZER D-6 W/BLADE	W TIME1 6	362.0000 HRS	* Multiply by	1.5000	543.0000 HR	
EQ3 trailer truck, 20 cy, owner-op	W TRKHRS6	7602.0000 HR	* Multiply by	1.0000	7602.0000 HR	
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	362.0000 HRS	* Multiply by	0.5000	181.0000 HR	
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	362.0000 HRS	* Multiply by	0.5000	181.0000 HR	

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C 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
LB1	OILER	A EQ1	362.0000 HR	* Multiply by	1.0000	362.0000 HR
LB2	TRUCK DRIVER	A EQ3	7602.0000 HR	* Multiply by	1.0000	7602.0000 HR
LB3	PEO-backhoe	A EQ1	362.0000 HR	* Multiply by	1.0000	362.0000 HR
LB4	PEO-dozer	A EQ2	543.0000 HR	* Multiply by	1.0000	543.0000 HR
LB6	PEO-motor grader	A EQ5	181.0000 HR	* Multiply by	1.0000	181.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	181.0000 HR	* Multiply by	1.0000	181.0000 HR
LB8	LABORER	W TIME1 6	362.0000 HRS	* Multiply by	2.0000	724.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	362.0000 HRS	* Multiply by	1.0000	362.0000 HR

D 09011502 02 Excavation

517600.0000 CY

DUMPTI6 dump time (in hours)

dump time (in minutes)	N	2.0000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

DUMPTI6 dump time (in hours)

0.0333 HR

HAULD 6 haul distance (round trip)

haul distance (1 way)	N	11.0000	* Multiply by	MI
make round trip	N	2.0000		MI

HAULD 6 haul distance (round trip)

22.0000 MI

LOADTI6 load time (in hours)

load time (in minutes)	N	3.7000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

LOADTI6 load time (in hours)

0.0617 HR

NTRUCK6 number of trucks needed

production rate	W PRODR6	1	/ Divide by	CY/
work time per hour	W WKTIME6	1	/ Divide by	HR
truck cycle time	W TRKCYC6	0.6548	* Multiply by	HR
truck payload	W TRKPAY6	16.0000	* Multiply by	CY
	N	1.0000	U Round Up	TRU
round UP to whole number	N	1.0000	+ Add to	TRU
add 1 extra truck	N	1.0000		TRU

TRUCK6 number of trucks needed

14.0000 TRU

PRODR6 production rate

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D 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
production rate (CY/HR)	N	260.0000			CY/
PRODRT6 production rate					260.0000 CY/
<hr/>					
TIME1 6 total work hours					
excavation quantity	A 02 (	517600.0000	/ Divide by		CY
production rate	W PRODRT6	260.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					1991.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
TLOADF6 truck load factor					0.8000 FAC
TRKCAP6 truck capacity					
truck capacity	N	20.0000			CY
TRKCAP6 truck capacity					20.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT16	0.0617	+ Add to		HR
haul distance	W HAULD 6 (	22.0000	/ Divide by		MI
travel speed	W TRKSPD6	39.3000)	+ Add to		MPH
dump time	W DUMPT16	0.0333			HR
TRKCYC6 truck cycle time					0.6548 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	1991.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	14.0000			TRU
TRKHRS6 total truck hours					27874.0000 HR
TRKPAY6 truck payload - CY per cycle					"
truck capacity	W TRKCAP6 (20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
round number	N	1.0000			CY

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D 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKPAY6 truck payload - CY per cycle					16.0000 CY
TRKSPD6 truck speed					
truck speed	N	39.3000			MPH
TRKSPD6 truck speed					39.3000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
EQ1 BACKHOE CAT 235 C 2.0 CY	W TIME1 6	1991.0000 HRS * Multiply by		1.0000	1991.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	1991.0000 HRS * Multiply by		1.5000	2986.5000 HR
EQ3 trailer truck, 20 cy, owner-op	W TRKHRS6	27874.0000 HR * Multiply by		1.0000	27874.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	1991.0000 HRS * Multiply by		0.5000	995.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	1991.0000 HRS * Multiply by		0.5000	995.5000 HR
LB1 OILER	A EQ1	1991.0000 HR * Multiply by		1.0000	1991.0000 HR
LB2 TRUCK DRIVER	A EQ3	27874.0000 HR * Multiply by		1.0000	27874.0000 HR
LB3 PEO-backhoe	A EQ1	1991.0000 HR * Multiply by		1.0000	1991.0000 HR
LB4 PEO-dozer	A EQ2	2986.5000 HR * Multiply by		1.0000	2986.5000 HR
LB6 PEO-motor grader	A EQ5	995.5000 HR * Multiply by		1.0000	995.5000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	995.5000 HR * Multiply by		1.0000	995.5000 HR
LB8 LABORER	W TIME1 6	1991.0000 HRS * Multiply by		2.0000	3982.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	1991.0000 HRS * Multiply by		1.0000	1991.0000 HR
D 09013002 02 R-90 Stone					
					137800.0000 TN
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000 / Divide by			MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	15.0000 * Multiply by			'MI
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					30.0000 MI

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D 09013002 02. R-90 Stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
LOADTI6 load time (in hours)					
load time (in minutes)	N	3.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
LOADTI6 load time (in hours)					0.0500 HR
<hr/>					
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	320.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.8150	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
<hr/>					
NTRUCK6 number of trucks needed					21.0000 TRU
<hr/>					
PRODRT6 production rate					
production rate (CY/HR)	N	320.0000			CY/
<hr/>					
PRODRT6 production rate					320.0000 CY/
<hr/>					
TIMEI6 total work hours					
excavation quantity	A 04 (	141400.0000	/ Divide by		CY
production rate	W PRODRT6	320.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
<hr/>					
TIMEI6 total work hours					442.0000 HRS
<hr/>					
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
<hr/>					
TLOADF6 truck load factor					0.8000 FAC
<hr/>					
TRKCAP6 truck capacity					
truck capacity	N	20.0000			
<hr/>					
TRKCAP6 truck capacity					20.0000 CY

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D 09013002 02. R-90 Stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
TRKCYC6 truck cycle time					
truck load time	W LOADT16	0.0500	+ Add to		HR
haul distance	W HAULD 6 (	30.0000	/ Divide by		MI
travel speed	W TRKSPD6	41.0000)	+ Add to		MPH
dump time	W DUMPT16	0.0333			HR
<hr/>					
TRKCYC6 truck cycle time					0.8150 HR
<hr/>					
TRKHRS6 total truck hours					
work time	W TIME1 6	442.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	21.0000			TRU
<hr/>					
TRKHRS6 total truck hours					9282.0000 HR
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
round number	N	1.0000			CY
<hr/>					
TRKPAY6 truck payload - CY per cycle					16.0000 CY
<hr/>					
TRKSPD6 truck speed					
truck speed	N	41.0000			MPH
<hr/>					
TRKSPD6 truck speed					41.0000 MPH
<hr/>					
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
<hr/>					
WKTIME6 work time per hour					0.8300 HR
<hr/>					
D 09013002 04 Excavation for stone					
					141400.0000 CY
<hr/>					
DUMPT16 dump time(in hours)					*
dump time(in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
DUMPT16 dump time(in hours)					0.0333 HR
<hr/>					

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D 09013002 04. Excavation for stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	11.0000	* Multiply by		MI
make round trip	N	2.0000			MI
<hr/>					
HAULD 6 haul distance (round trip)					22.0000 MI
LOADT16 load time (in hours)					
load time (in minutes)	N	3.7000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
LOADT16 load time (in hours)					0.0617 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	260.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.6548	* Multiply by		HR
truck payload	W TRKPAY6	16.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
<hr/>					
NTRUCK6 number of trucks needed					14.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	260.0000			CY/
<hr/>					
PRODRT6 production rate					260.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 04 (	141400.0000	/ Divide by		CY
production rate	W PRODRT6	260.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
<hr/>					
TIME1 6 total work hours					544.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.8000			FAC
<hr/>					
TLOADF6 truck load factor					0.8000 FAC

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D 09013002 04. Excavation for stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
TRKCAP6 truck capacity					
<hr/>					
truck capacity	N	20.0000			CY
TRKCAP6 truck capacity					20.0000 CY
<hr/>					
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0617	+ Add to		HR
haul distance	W HAULD 6 (	22.0000	/ Divide by		MI
travel speed	W TRKSPD6	39.3000)	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.6548 HR
<hr/>					
TRKHRS6 total truck hours					
work time	W TIME1 6	544.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	14.0000			TRU
TRKHRS6 total truck hours					7616.0000 HR
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	20.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.8000)	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					16.0000 CY
<hr/>					
TRKSPD6 truck speed					
truck speed	N	39.3000			MPH
TRKSPD6 truck speed					39.3000 MPH
<hr/>					
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
<hr/>					
EQ1 BACKHOE CAT 235 C 2.0 CY	W TIME1 6	544.0000 HRS	* Multiply by	1.0000	544.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	544.0000 HRS	* Multiply by	1.5000	816.0000 HR
EQ3 trailer truck, 20 cy, owner-op	W TRKHRS6	7616.0000 HR	* Multiply by	1.0000	7616.0000 HR

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D 09013002 04. Excavation for stone		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
EQ4	WATER TRUCK 2000 GAL	W TIME1 6	544.0000 HRS * Multiply by		0.5000	272.0000 HR
EQ5	MOTOR GRADER CAT 12-G	W TIME1 6	544.0000 HRS * Multiply by		0.5000	272.0000 HR
LB1	OILER	A EQ1	544.0000 HR * Multiply by		1.0000	544.0000 HR
LB2	TRUCK DRIVER	A EQ3	7616.0000 HR * Multiply by		1.0000	7616.0000 HR
LB3	PEO-backhoe	A EQ1	544.0000 HR * Multiply by		1.0000	544.0000 HR
LB4	PEO-dozer	A EQ2	816.0000 HR * Multiply by		1.0000	816.0000 HR
LB6	PEO-motor grader	A EQ5	272.0000 HR * Multiply by		1.0000	272.0000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	272.0000 HR * Multiply by		1.0000	272.0000 HR
LB8	LABORER	W TIME1 6	544.0000 HRS * Multiply by		2.0000	1088.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	544.0000 HRS * Multiply by		1.0000	544.0000 HR
E 09011502 02 Excavation						143000.0000 CY
DUMPTI6	dump time(in hours)					
	dump time(in minutes)	N	2.0000 / Divide by			MIN
	minutes per hour	N	60.0000			MIN
DUMPTI6	dump time(in hours)					0.0333 HR
HAULD 6	haul distance (round trip)					
	haul distance (1 way)	N	8.0000 * Multiply by			MI
	make round trip	N	2.0000			MI
HAULD 6	haul distance (round trip)					16.0000 MI
LOADTI6	load time (in hours)					
	load time (in minutes)	N	2.6000 / Divide by			MIN
	minutes per hour	N	60.0000			MIN
LOADTI6	load time (in hours)					0.0433 HR
NTRUCK6	number of trucks needed					
	production rate	W PRODR6 (	210.0000 / Divide by			CT/
	work time per hour	W WKTIME6 (	0.8300 / Divide by			HR
	truck cycle time	W TRKCYC6	0.6099 * Multiply by			HR
	truck payload	W TRKPAY6	9.0000) * Multiply by			CY
		N	1.0000) U Round Up			TRU
	round UP to whole number	N	1.0000 + Add to			TRU
	add 1 extra truck	N	1.0000			T
NTRUCK6	number of trucks needed					19.0000 TRU

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E 09011502 02. Excavation
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SETTINGS PAGE 27

E 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
PRODR6 production rate					
<hr/>					
production rate (CY/HR)	N	210.0000			CY/
<hr/>					
PRODR6 production rate					210.0000 CY/
<hr/>					
TIME1 6 total work hours					
excavation quantity	N	(143000.0000	/ Divide by		CY
production rate	W PRODR6	210.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
<hr/>					
TIME1 6 total work hours					681.0000 HRS
<hr/>					
TLOADF6 truck load factor					
load factor	N	0.7500			FAC
<hr/>					
TLOADF6 truck load factor					0.7500 FAC
<hr/>					
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
<hr/>					
TRKCAP6 truck capacity					12.0000 CY
<hr/>					
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0433	+ Add to		HR
haul distance	W HAULD 6 (	16.0000	/ Divide by		MI
travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
<hr/>					
TRKCYC6 truck cycle time					0.6099 HR
<hr/>					
TRKHRS6 total truck hours					
work time	W TIME1 6	681.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	19.0000			TRU
<hr/>					
TRKHRS6 total truck hours					12939.0000 HR
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (12.0000	* Multiply by		CY
<hr/>					

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E 09011502 02. Excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
truck load factor (75%)	W TLOADF6	0.7500	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle				9.0000	CY
TRKSPD6 truck speed					
truck speed	N	30.0000			MPH
TRKSPD6 truck speed				30.0000	MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour				0.8300	HR
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	681.0000 HRS * Multiply by		1.0000	681.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	681.0000 HRS * Multiply by		1.0000	681.0000 HR
EQ3 Dump truck, 12 cy, own-op	W TRKHRS6	12939.0000 HR * Multiply by		1.0000	12939.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	681.0000 HRS * Multiply by		0.5000	340.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	681.0000 HRS * Multiply by		0.5000	340.5000 HR
LB1 OILER	A EQ1	681.0000 HR * Multiply by		1.0000	681.0000 HR
LB2 TRUCK DRIVER	A EQ3	12939.0000 HR * Multiply by		1.0000	12939.0000 HR
LB3 PEO-backhoe	A EQ1	681.0000 HR * Multiply by		1.0000	681.0000 HR
LB4 PEO-dozer	A EQ2	681.0000 HR * Multiply by		1.0000	681.0000 HR
LB6 PEO-motor grader	A EQ5	340.5000 HR * Multiply by		1.0000	340.5000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	340.5000 HR * Multiply by		1.0000	340.5000 HR
LB8 LABORER	W TIME1 6	681.0000 HRS * Multiply by		1.0000	681.0000 HR
LB9 flagmen	W TIME1 6	681.0000 HRS * Multiply by		1.0000	681.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	681.0000 HRS * Multiply by		1.0000	681.0000 HR
E 09013002 01 sand (8" thick)				13200.0000	CY
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000 / Divide by			MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)				0.0333	HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	9.5000 * Multiply by			MI
make round trip	N	2.0000			MI

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 E 09013002 01. sand (8" thick)
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	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
E 09013002 01. sand (8" thick)					
HAULD 6 haul distance (round trip)					19.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	2.3000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.0383 HR
NTRUCK6 number of trucks needed					
production rate	W PRODRT6 (	210.0000	/ Divide by		CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.7502	* Multiply by		HR
truck payload	W TRKPAY6	8.0000)	* Multiply by		CY
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
NTRUCK6 number of trucks needed					25.0000 TRU
PRODRT6 production rate					
production rate (CY/HR)	N	210.0000			CY/
PRODRT6 production rate					210.0000 CY/
TIME1 6 total work hours					
excavation quantity	A 01 (	13200.0000	/ Divide by		CY
production rate	W PRODRT6	210.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					63.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.6667			FAC
TLOADF6 truck load factor					0.6667 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY

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 E 09013002 01. sand (8" thick)
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E 09013002 01. sand (8" thick)	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0383	+ Add to		HR
haul distance	W HAULD 6 (	19.0000	/ Divide by		MI
travel speed	W TRKSPD6	28.0000	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
TRKCYC6 truck cycle time					0.7502 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	63.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	25.0000			TRU
TRKHRS6 total truck hours					1575.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.6667	R Round		FAC
round number	N	1.0000			CY
TRKPAY6 truck payload - CY per cycle					8.0000 CY
TRKSPD6 truck speed					
truck speed	N	28.0000			MPH
TRKSPD6 truck speed					28.0000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
sand material	P	13200.0000 CY	* Multiply by	1.0000	13200.0000 CY
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 H
EQ2 DOZER D-6 W/BLADE	W TIME1 6	63.0000 HRS	* Multiply by	1.5000	94.5000 HR
EQ3 DUMP TRUCK 12 CY	W TRKHRS6	1575.0000 HR	* Multiply by	1.0000	1575.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	63.0000 HRS	* Multiply by	0.5000	31.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	63.0000 HRS	* Multiply by	0.5000	31.5000 HR

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 E 09013002 01. sand (8" thick)
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		REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
E 09013002 01.	sand (8" thick)					
LB1	OILER	A EQ1	63.0000 HR	* Multiply by	1.0000	63.0000 HR
LB2	TRUCK DRIVER	A EQ3	1575.0000 HR	* Multiply by	1.0000	1575.0000 HR
LB3	PEO-backhoe	A EQ1	63.0000 HR	* Multiply by	1.0000	63.0000 HR
LB4	PEO-dozer	A EQ2	94.5000 HR	* Multiply by	1.0000	94.5000 HR
LB6	PEO-motor grader	A EQ5	31.5000 HR	* Multiply by	1.0000	31.5000 HR
LB7	TRUCK DRIVER - water truck	A EQ4	31.5000 HR	* Multiply by	1.0000	31.5000 HR
LB8	LABORER	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
LB9	flagmen	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR
LB10	foreman 3 \$26.50/hr	W TIME1 6	63.0000 HRS	* Multiply by	1.0000	63.0000 HR

E 09019902 01 excavation

6500.0000 CY

DUMPTI6 dump time(in hours)

dump time(in minutes)	N	2.0000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

DUMPTI6 dump time(in hours)

0.0333 HR

HAULD 6 haul distance (round trip)

haul distance (1 way)	N	8.0000	* Multiply by	MI
make round trip	N	2.0000		MI

HAULD 6 haul distance (round trip)

16.0000 MI

LOADTI6 load time (in hours)

load time (in minutes)	N	3.2000	/ Divide by	MIN
minutes per hour	N	60.0000		MIN

LOADTI6 load time (in hours)

0.0533 HR

NTRUCK6 number of trucks needed

production rate	W PRODR6 (	170.0000	/ Divide by	CY/
work time per hour	W WKTIME6 (	0.8300	/ Divide by	HR
truck cycle time	W TRKCYC6	0.6199	* Multiply by	HR
truck payload	W TRKPAY6	9.0000)	* Multiply by	CY
	N	1.0000)	U Round Up	TRU
round UP to whole number	N	1.0000	+ Add to	TRU
add 1 extra truck	N	1.0000		TRU

..TRUCK6 number of trucks needed

16.0000 TRU

PRODR6 production rate

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E 09019902 01. excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
production rate (CY/HR)	N	170.0000			CY/
PRODR6 production rate					170.0000 CY/
TIME1 6 total work hours					
excavation quantity	N (	6500.0000	/ Divide by		CY
production rate	W PRODR6	170.0000)	R Round		CY/
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					38.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.7500			FAC
TLOADF6 truck load factor					0.7500 FAC
TRKCAP6 truck capacity					
truck capacity	N	12.0000			CY
TRKCAP6 truck capacity					12.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0533	+ Add to		HR
haul distance	W HAULD 6 (	16.0000	/ Divide by		MI
travel speed	W TRKSPD6	30.0000)	+ Add to		MPH
dump time	W DUMPTI6	0.0333			HR
TRKCYC6 truck cycle time					0.6199 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	38.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	16.0000			TRU
TRKHRS6 total truck hours					608.0000 HR
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (12.0000	* Multiply by		CY
truck load factor (80%)	W TLOADF6	0.7500)	R Round		FAC
round number	N	1.0000			CY

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E 09019902 01. excavation	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
TRKPAY6 truck payload - CY per cycle					9.0000 CY
TRKSPD6 truck speed					
truck speed	N	30.0000			MPH
TRKSPD6 truck speed					30.0000 MPH
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
WKTIME6 work time per hour					0.8300 HR
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	38.0000 HRS * Multiply by		1.0000	38.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	38.0000 HRS * Multiply by		1.0000	38.0000 HR
EQ3 Dump truck, 12 cy, own-op	W TRKHRS6	608.0000 HR * Multiply by		1.0000	608.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	38.0000 HRS * Multiply by		0.5000	19.0000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	38.0000 HRS * Multiply by		0.5000	19.0000 HR
LB1 OILER	A EQ1	38.0000 HR * Multiply by		1.0000	38.0000 HR
LB2 TRUCK DRIVER	A EQ3	608.0000 HR * Multiply by		1.0000	608.0000 HR
LB3 PEO-backhoe	A EQ1	38.0000 HR * Multiply by		1.0000	38.0000 HR
LB4 PEO-dozer	A EQ2	38.0000 HR * Multiply by		1.0000	38.0000 HR
LB6 PEO-motor grader	A EQ5	19.0000 HR * Multiply by		1.0000	19.0000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	19.0000 HR * Multiply by		1.0000	19.0000 HR
LB8 LABORER	W TIME1 6	38.0000 HRS * Multiply by		1.0000	38.0000 HR
LB9 flagmen	W TIME1 6	38.0000 HRS * Multiply by		1.0000	38.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	38.0000 HRS * Multiply by		1.0000	38.0000 HR
E 09019902 03 Crushed stone					9000.0000 TON
DUMPTI6 dump time(in hours)					
dump time(in minutes)	N	2.0000 / Divide by			MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time(in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	11.5000 * Multiply by			MI
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					23.0000 MI

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E 09019902 03. Crushed stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
LOADT16 load time (in hours)					
load time (in minutes)	N	4.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
<hr/>					
LOADT16 load time (in hours)					0.0667 HR
<hr/>					
NTRUCK6 number of trucks needed					
production rate	W PRODR6 (	180.0000	/ Divide by		TN/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.7250	* Multiply by		HR
truck payload	W TR PAY6	12.0000)	* Multiply by		TON
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
add 1 extra truck	N	1.0000			TRU
<hr/>					
NTRUCK6 number of trucks needed					15.0000 TRU
<hr/>					
PRODR6 production rate					
production rate (TN/HR)	N	180.0000			TN/
<hr/>					
PRODR6 production rate					180.0000 TN/
<hr/>					
TIME1 6 total work hours					
excavation quantity	N (	9500.0000	/ Divide by		TON
production rate	W PRODR6	180.0000)	R Round		TN/
(round UP to whole number)	N	1.0000			FAC
<hr/>					
TIME1 6 total work hours					53.0000 HRS
<hr/>					
TLOADF6 truck load factor					
load factor	N	0.6670			FAC
<hr/>					
TLOADF6 truck load factor					0.6670 FAC
<hr/>					
TRKCAP6 truck capacity					
truck capacity	N	18.0000			TON
<hr/>					
TRKCAP6 truck capacity					18.0000 TON

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E 09019902 03. Crushed stone	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
TRKCYC6 truck cycle time					
truck load time	W LOADT6	0.0667	+ Add to		HR
haul distance	W HAULD 6 (	23.0000	/ Divide by		MI
travel speed	W TRKSPD6	36.8000)	+ Add to		MPH
dump time	W DUMPT6	0.0333			HR
<hr/>					
TRKCYC6 truck cycle time					0.7250 HR
<hr/>					
TRKHRS6 total truck hours					
work time	W TIME1 6	53.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	15.0000			TRU
<hr/>					
TRKHRS6 total truck hours					795.0000 HR
<hr/>					
TRKPAY6 truck payload - CY per cycle					
truck capacity	W TRKCAP6 (	18.0000	* Multiply by		TON
truck load factor (80%)	W TLOADF6	0.6670)	R Round		FAC
round number	N	1.0000			TON
<hr/>					
TRKPAY6 truck payload - CY per cycle					12.0000 TON
<hr/>					
TRKSPD6 truck speed					
truck speed	N	36.8000			MPH
<hr/>					
TRKSPD6 truck speed					36.8000 MPH
<hr/>					
WKTIME6 work time per hour					
time efficiency per hour	N	0.8300			FAC
<hr/>					
WKTIME6 work time per hour					0.8300 HR
<hr/>					
EQ1 BACKHOE, HITACHI UH083 1.13 CY	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
EQ3 Dump truck, 12 cy, own-op	W TRKHRS6	795.0000 HR	* Multiply by	1.0000	795.0000 HR
LB2 TRUCK DRIVER	A EQ3	795.0000 HR	* Multiply by	1.0000	795.0000 HR
LB3 PEO-backhoe	A EQ1	53.0000 HR	* Multiply by	1.0000	53.0000 HR
LB4 PEO-dozer	A EQ2	53.0000 HR	* Multiply by	1.0000	53.0000 HR
LB8 LABORER	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	53.0000 HRS	* Multiply by	1.0000	53.0000 HR

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E 09019902 04. Obstruction Removal	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
E 09019902 04 Obstruction Removal					5600.0000 LF
DUMPTI6 dump time (in hours)					
dump time (in minutes)	N	2.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
DUMPTI6 dump time (in hours)					0.0333 HR
HAULD 6 haul distance (round trip)					
haul distance (1 way)	N	18.5000	* Multiply by		MI
make round trip	N	2.0000			MI
HAULD 6 haul distance (round trip)					37.0000 MI
LOADTI6 load time (in hours)					
load time (in minutes)	N	12.0000	/ Divide by		MIN
minutes per hour	N	60.0000			MIN
LOADTI6 load time (in hours)					0.2000 HR
NTRUCK6 number of trucks needed					
production rate	W PRODR6 (	30.0000	/ Divide by		TN/
work time per hour	W WKTIME6 (	0.8300	/ Divide by		HR
truck cycle time	W TRKCYC6	0.9993	* Multiply by		HR
truck payload	W TRKPAY6	6.0000)	* Multiply by		TM
	N	1.0000)	U Round Up		TRU
round UP to whole number	N	1.0000	+ Add to		TRU
	N	0.0000			TRU
NTRUCK6 number of trucks needed					7.0000 TRU
PRODR6 production rate					
production rate (TN/HR)	N	30.0000			TN/
PRODR6 production rate					30.0000 TN/
TIME1 6 total work hours					
excavation quantity	N (1890.0000	/ Divide by		TON
production rate	W PRODR6	30.0000)	R Round		TN/

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E 09019902 04. Obstruction Removal	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
(round UP to whole number)	N	1.0000			FAC
TIME1 6 total work hours					63.0000 HRS
TLOADF6 truck load factor					
load factor	N	0.3333			FAC
TLOADF6 truck load factor					0.3333 FAC
TRKCAP6 truck capacity					
truck capacity	N	18.0000			TON
TRKCAP6 truck capacity					18.0000 CY
TRKCYC6 truck cycle time					
truck load time	W LOADT16	0.2000	+ Add to		HR
haul distance	W HAULD 6 (	37.0000	/ Divide by		MI
travel speed	W TRKSPD6	48.3000)	+ Add to		MPH
dump time	W DUMPT16	0.0333			HR
TRKCYC6 truck cycle time					0.9993 HR
TRKHRS6 total truck hours					
work time	W TIME1 6	63.0000	* Multiply by		HRS
number of trucks needed	W NTRUCK6	7.0000			TRU
TRKHRS6 total truck hours					441.0000 HR
TRKPAY6 truck payload - TN per cycle					
truck capacity	W TRKCAP6 (	18.0000	* Multiply by		TON
truck load factor (33%)	W TLOADF6	0.3333)	R Round		FAC
round number	N	1.0000			TON
TRKPAY6 truck payload - TN per cycle					6.0000 TON
TRKSPD6 truck speed					
truck speed	N	48.3000			MPH
TRKSPD6 truck speed					48.3000 MPH

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E 09019902 04. Obstruction Removal	REFERENCE	REF VALUE	OPERATOR	LOCAL INPUT	QUANTITY UOM
<hr/>					
WKTIME6 work time per hour					
<hr/>					
time efficiency per hour	N	0.8300			FAC
<hr/>					
WKTIME6 work time per hour					0.8300 HR
<hr/>					
BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
PEO-backhoe	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
EQ1 BACKHOE CAT 225B 1.25 CY	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
EQ2 DOZER D-6 W/BLADE	W TIME1 6	63.0000 HRS * Multiply by		1.5000	94.5000 HR
EQ3 Dump truck, 12 cy, own-op	W TRXHRS6	441.0000 HR * Multiply by		1.0000	441.0000 HR
EQ4 WATER TRUCK 2000 GAL	W TIME1 6	63.0000 HRS * Multiply by		0.5000	31.5000 HR
EQ5 MOTOR GRADER CAT 12-G	W TIME1 6	63.0000 HRS * Multiply by		0.5000	31.5000 HR
LB1 OILER	A EQ1	63.0000 HR * Multiply by		1.0000	63.0000 HR
LB2 TRUCK DRIVER	A EQ3	441.0000 HR * Multiply by		1.0000	441.0000 HR
LB3 PEO-backhoe	A EQ1	63.0000 HR * Multiply by		1.0000	63.0000 HR
LB4 PEO-dozer	A EQ2	94.5000 HR * Multiply by		1.0000	94.5000 HR
LB6 PEO-motor grader	A EQ5	31.5000 HR * Multiply by		1.0000	31.5000 HR
LB7 TRUCK DRIVER - water truck	A EQ4	31.5000 HR * Multiply by		1.0000	31.5000 HR
LB8 LABORER	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
LB9 flagmen	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR
LB10 foreman 3 \$26.50/hr	W TIME1 6	63.0000 HRS * Multiply by		1.0000	63.0000 HR